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ANNUAL REPORT

OF

THE MINES DIVISION

OF THE

Department of Mines and Minerals

OF THE

PROVINCE OF ALBERTA

1950

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Edmonton, Alberta,
February 14th, 1951.

To The Hon. N. E. Tanner,
Minister of Mines and Minerals.

Sir:

I herewith submit the Report of the Mines Division for the year ending December 31st, 1950.

Respectfully submitted,

John Crawford,
Director of Mines.

ANNUAL REPORT OF THE MINES DIVISION FOR THE YEAR ENDING DECEMBER 31, 1950

(JOHN CRAWFORD, *Director of Mines*)

The output of coal produced from mines in the Province during the year 1950 was 8,118,206 tons, with a valuation of $41,631,579. This shows a decrease of 498,777 tons compared with the tonnage produced in 1949, which was 8,616,983 tons, and a decrease in valuation of $2,909,959.

During the year the number of manshifts totalled 1,735,316. This is a decrease of 175,606 manshifts in comparison with 1949. In that year the number of manshifts totalled 1,910,922.

This reduction in production and manshifts can be partly attributed to the following factors:

1. Marketing difficulties—this is an old and recurrent problem and is as much to the fore as it ever was. Freight rates have a strong influence on the decrease in productivity, confining our exports to the East to a minimum.
2. Shortage of railroad cars during the year.
3. The abandonment of five highly productive mines.
4. Fireboss strike during the period January 16/50 to March 5/50.
5. National railway strike August 8/50 to August 16/50.
6. Railway dieselization, and conversion of engines from coal to oil.

The disposition of coal during the year was as follows:

	Tons
Sold for consumption in Alberta	1,672,519
Sold for consumption in other Provinces	3,139,764
Sold to the United States	105,765
Sold to railroad companies	2,308,365
Used making briquettes	387,640
Used making coke	23,079
Used under colliery boilers	129.621
Used by colliery railroads	1,079
Put to stock	315,127
Put to waste	360,516

The above tonnages include coal lifted from stock and waste heaps, which are not included in the total output.

Statistics indicate that mechanization of the mines is proceeding satisfactorily and our surveys confirm that, in comparison with former years, substantial increases have been noted as regards the installation of coal cutting machines, diesel locomotives, battery locomotives, trolley locomotives, conveyors, coal drills and mobile face loaders. If it had been possible to market all available coal, and had there been no delays or work stoppages, it is probable that 1950 would have been a record production year.

Of the above output, 3,098,354 tons were produced from 99 strip mines operating in the Province. During the year production from stripping operations increased by 156,398 tons or 5.3% over 1949; in that year the total was 2,941,956 tons. There was an increase of five strip mines in comparison with 1949, when 94 strip mines were in operation.

During the year 11 quarries produced 654,387 tons of shale, clay and limestone, from which 35,657,921 bricks and 25,325 tons of hollow tile were made. In addition to the above output 6,376 tons of shale were imported from Saskatchewan. Further particulars as to work done in quarries is shown on page 42 of this report.

There were 207 mines producing coal during the year, of which 11 were opened, 73 re-opened, 78 closed and 19 abandoned. At December 31st, 167 mines were in operation.

There were 8,665 men employed during the month of December, this being a decrease of 925 in comparison with the corresponding month for 1949.

During the year there was a total of 876 miners' certificates, miners' provisional certificates, and miners' permits issued by the Inspectors, enabling the holders to proceed to the coal face as miners. This represents a decrease of 436 in comparison with 1949.

During the year there were 6 first class or mine managers' certificates issued, 6 second class or overman's certificates, 28 third class or examiners' certificates, 6 mine surveyors' certificates, 8 first class mine electricians' certificates, and 5 second class mine electricians' certificates granted. In addition, 13 strip mine managers' certificates, 16 strip mine foreman's certificates, and 1 strip mine blaster's certificate were granted.

Fourteen examinations were held throughout the Province for coal miners' certificates of competency, and 296 certificates issued to successful candidates. There were also 497 miners' permits and 83 miners' provisional certificates issued by the inspection staff; 52 duplicate miners' certificates were issued by this office.

Samples of mine air were taken during the year by the Inspectors and forwarded to the Chemistry Branch of the Department of Mines and Resources, Ottawa, for analysis. This has been done in addition to the tests made with the M.S.A. methane and other gas detectors.

Samples of coal and coal-dust were collected and forwarded to the Research Council of Alberta, Edmonton, for analysis.

All fatal and serious accidents have been investigated by the Inspectors, who also attended the inquests held in their districts, this being in addition to the regular inspection of the mines. All complaints made to the Department were investigated.

There were 24 prosecutions instituted for contraventions of The Coal Mines Regulation Act, made up as follows: 2 owners, 2 agents, 3 managers, 8 examiners, 1 foreman, 2 miners, 1 timberpacker, 1 driver, 1 shovel operator, 1 machineman, 1 machineman's helper, 1 surface labourer.

The purchased electrical power by the mines was 50,418,029 k.w. hours, this being a decrease of 3,172,953 k.w. hours in comparison with 1949. During the year the number of mines using electrical power was 97, an increase of five over 1949. The number of electrical coal-cutting machines in use was 197, an increase of 13 over 1949, and the total horse power of electrical motors in use, both above and below ground, was 61,454 h.p., a decrease of 209 h.p. in comparison with 1949. The decrease in the purchased electrical power can be partly attributed to the suspension of operations of six electrified mines.

It will be noted from the reports of the District Inspectors and Electrical Inspector that in the matter of installation of new equipment, very satisfactory progress is being made.

The trend toward the use of protective equipment in the mines is proceeding satisfactorily, there being in use during 1950: 5,782 hard hats, 3,755 pairs of safety shoes, 719 pairs of goggles, 374 pairs of knee pads.

The number of fatal accidents during the year was 20 as compared with 13 in 1949. This equals 2.46 fatals per million tons of coal produced. This figure includes five deaths that occurred as a result of a flash flood which took place at the Cadomin mine on June 14th, 1950.

As regards the aforementioned fatalities, 2 occurred on the surface and 18 underground, causes of the fatal accidents being as follows: electricity 1, tipple machinery 1, fall of coal 3, fall of rock 7, haulage 1, ignition of gas 1, miscellaneous 6 (includes 5 fatals caused by flash flood). There was a decrease in the number of accidents reported to this office during the year in comparison with 1949, i.e. during 1950 a total of 203 accidents were reported to this office while the corresponding total for 1949 was 210.

A total of seven approved diesel locomotives are now in operation in the mines of the Province in comparison with five diesel locomotives in operation in 1949. The first permissible diesel locomotive equipped with every form of safety device was introduced into the Adanac mine operated by the West Canadian Collieries Ltd., in the month of August, 1947. As of that date locomotives of this type and fully approved by the British approval authorities have been installed in mines as follows: 1 operated by the Luscar Coals Ltd., Luscar; 1 operated by the International Coal and Coke Co. Ltd., Coleman; 2 operated by Lethbridge Collieries Ltd., Lethbridge; 3 operated by West Canadian Collieries Ltd., Blairmore. The locomotives of this type presently operating in the Province range from 50 to 100 h.p. A very close check has been kept on the behaviour of these machines under normal operating conditions by our Field Inspectors and their reports indicate the machines are giving highly satisfactory service.

During 1950 officials' examinations under the provisions of The Coal Mines Regulation Act were held as follows: first and second class certificates (mine manager and overman), at Calgary and Edmonton, June 6th, 7th and 8th; third class certificates (examiner), at Blairmore, Cadomin, Drumheller, Edmonton, Lethbridge and Nordegg, on May 30th; mine surveyors' certificates at Calgary on June 8th; mine electricians' certificates (first and second class) at Blairmore, Lethbridge, Edmonton, Cadomin, Drumheller, Canmore and Nordegg on May 30th; strip mine managers' certificates at Calgary and Edmonton on June 8th; strip mine foreman's and blasters' certificates at Blairmore, Cadomin, Drumheller and Edmonton on May 30th.

As of July 1st, 1950, the office of the Director of Mines took over the administration of Alberta's quarries under the provisions of The Quarries Regulation Act. This procedure rendered all quarries operations subject to periodic inspection by the Mines Division inspection staff in order to retain a high level of competence at the quarries from a safety and supervisory point of view. The enactment of The Quarries Regulation Act also enables the Mines Division to compile statistical data relating to over-all quarry operation.

On January 16th, 1950, the National Union of Firebosses declared a strike affecting firebosses employed in Alberta's bituminous coal fields. This dispute decreased operations in the Crowsnest, Nordegg, Mountain Park and Canmore areas. Production was recommenced by reappointing such certified men as were previously employed at other duties, closing down some mine districts and concentrating the workmen in more productive areas. An agreement between the Firebosses and Mine Management was concluded on March 5th, 1950, and the mines resumed normal production.

The national railway strike of August 8th/50 to August 16th/50 created a brief hardship on our coal mines, and during that period completely dislocated distribution and curtailed production.

On June 14th, 1950, a flash flood occurred in the No. 1 panel of the 4,800-foot level of the East shaft workings at the mine operated by the Cadomin Coal Co. (Mine No. 693), Cadomin, resulting in the death of five of the 22 employees who were on shift at that time. From that date until August 5th/50 recovery crews worked continuously in an effort to reach the bodies of the trapped workmen. On the latter date all the bodies were recovered and brought to the surface for burial. On instructions from the Director of Mines the following Inspectors proceeded to Cadomin at the time of the disaster to render assistance and supervision: J. A. Dutton, Assistant to the Director of Mines; A. L. Lister, District Inspector of Mines, Edson; J. Thomson, District Inspector of Mines, Edmonton.

A labour dispute concerning mine cars occurred in the Lethbridge district during the latter part of the year, wherein contract miners at the Galt mine operated by the Lethbridge Collieries Ltd. ceased work on October 23/50. They were idle for one week. The rest of the workmen at the mine ceased work on October 30th and 31st. An agreement was reached on November

1st and work recommenced on a trial basis. A meeting was again arranged, but both parties failed to arrive at a mutual understanding and as a result the contract miners again ceased work on December 21st; the balance of the workmen withdrew their labour the following day. At the same time, workmen at the Federal mine operated by the J. J. Hamilton Coal Co. ceased work and both mines are still idle as of December 31st, 1950.

As of April 10th, 1950, a spontaneous heating condition developed in the gob area adjacent No. 3 South entry at Mine No. 771, Foothills Collieries Ltd., Foothills. Mr. A. L. Lister, District Inspector of Mines, Edson, was instructed by this office to immediately proceed to the mine in question to supervise and investigate conditions as they existed, and attempt to seal off the heated area. Mr. J. A. Dutton, Assistant to the Director of Mines, inspected the heating area during the period May 1st-4th and submitted a report on same to this office. During the period of heating the only workmen allowed underground were those whose duty required them to be there for the purpose of sealing off the fire area. It became necessary to seal off numerous crosscuts to these abandoned workings to prevent the possibility of fire breaking out. The matter of isolating the heated district proceeded satisfactorily and by June 5th/50 the mine resumed normal operations.

On September 19th, 1950, an underground fire broke out in worked-out rooms in Mine No. 846, operated by the McLeod River Hard Coal Co. (1941) Ltd., and it was necessary to seal off the district to prevent the fire reaching other portions of the mine. As of November 9th, 1950, the area in question had cooled to such an extent that it was considered safe to resume normal operations.

A surface fire took place at Mine No. 256, Brazeau Collieries Ltd., Nordegg, on June 14th, 1950, completely demolishing their tipple and five briquette plants. This fire was an unfortunate occurrence. However, all the men have been placed in jobs elsewhere. The company is at this time in the process of erecting new installations.

A surface fire of unknown origin occurred at Mine No. 1404, Kleenbirn Collieries Ltd., Eyremore, on September 26th, 1950, destroying the tipple, coal preparation plant and substation. A temporary tipple was erected and put into operation on October 21st/50 and plans for a general rebuilding are at present in the construction stage.

A surface fire of unknown origin occurred at Mine No. 772, Ajax mine, operated by Rudolph Radke, Medicine Hat, as of September 23rd, 1950, wherein the tipple, screening plant and hoist room were completely destroyed. A new tipple has been erected.

On August 27th, 1950, an underground fire occurred in the left counter entry near old No. 5 South entry at Mine No. 367, Midland Coal Mining Co. Ltd., Drumheller. Said fire was immediately extinguished with the use of chemicals and fire hose, and the area for a determined period of time was kept under close observation. The source of the fire was traced to a dormant heating in an adjacent gob area; a seal was built at the point of conflagration to isolate the heated area from the main roadways of the mine.

On September 8th, 1950, an underground fire occurred in the 12 East entry at Mine No. 1421, Hy Grade mine, Drumheller. This fire originated in loose coals following blasting operations at the face of a development entry; the fire was subsequently extinguished on September 9th/50.

As of February 21st, 1950, a surface fire destroyed the hoist room, blacksmith's shop and electrician's shop at Mine No. 428, Banner Coals Ltd., Carbondale. The fire was due to an overheated stove in the hoist room. A great deal of credit is to be given to the Edmonton Fire Department for saving the tipple and other buildings.

An underground fire occurred as of July 24th, 1950, at Mine No. 1587, operated by J. J. Mills, Heisler. The mine was sealed off and fire extinguished under the supervision of T. Strickland, as of July 29th, 1950. A new slope was constructed.

During 1950 the following large-scale operations were abandoned: Mountain Park Coal Co. Ltd., Mountain Park; Red Flame Coal Co. Ltd., Round Hill; Newcastle Collieries Ltd., Drumheller; Western Gem and Jewel Collieries Ltd., Cambria; Arcadia Coal Mines Ltd., Willow Creek. The Maple Leaf Coal Co. Ltd. have suspended operations.

Mr. W. E. G. Hall, District Inspector of Mines, Calgary, retired from Government service as of March 31st, 1950.

During the year the following appointments and transfers took place in the inspectorate:

Mr. A. Muir, District Inspector of Mines, was transferred from the Edson to the Calgary inspectorate.

Mr. A. L. Lister was promoted from Assistant District Inspector of Mines, Blairmore, to District Inspector of Mines, Edson.

Mr. R. Shaw was promoted from Assistant District Inspector of Mines, Drumheller, to District Inspector of Mines, Stettler. A reorganization of the Stettler-Drumheller inspection area was put into effect as of February 15th, 1950, and as a result a new inspectorate was created, with the District Office at Stettler.

Mr. P. S. Douglas was appointed Assistant District Inspector of Mines, Blairmore. Mr. Douglas resigned as of September 9th, 1950.

Mr. P. Melson was appointed Assistant District Inspector of Mines, Blairmore.

SUMMARY OF INFORMATION COMPILED FROM THE REPORTS OF THE INSPECTORS

(J. A. DUTTON, *Assistant to the Director of Mines*)

There were five prosecutions during the year for failure to send or cause to be sent to the Director of Mines on or before the 15th day of the month the Coal Operators' Monthly Statements showing the amount of coal mined, resulting in fines of $120.00 and costs of $18.00. Three of these charges were carried over from the previous year, and so, in effect, only two breaches of the Act for this cause were committed during 1950—this is a decided improvement in comparison with 1949, when eight such violations were committed.

The Board of Examiners for Strip Mines, of which I am Chairman, met on two occasions to deal with applications for certification. A total of 50 applications were approved of for examination, including 10 applications from persons who are holders of First Class (Manager's) Certificates, qualifying for a Strip Mine Manager's Certificate under Section 5(d)(i) of the Strip Mine Regulations. Seven presented themselves for examination for Strip Mine Manager's Certificate, of whom three were successful. Seventeen presented themselves for examination for Strip Mine Foreman's Certificate, of whom 15 were successful. One candidate sat for a Strip Mine Blaster's Certificate and was successful. There was no change in the personnel of the Strip Mine Board of Examiners during the year.

From February 20th to 25th, 1950, I was in the Crowsnest district in connection with the fireboss strike in the bituminous coal fields in order to ensure that mine inspections were being carried out at the various mines in accordance with the provisions of The Coal Mines Regulation Act. Due to an acute shortage of railroad cars caused by adverse weather conditions at the time, the mines were not operating to capacity and the mine operators were, therefore, able to rearrange their staffs to carry on the duties of mine examiners in a satisfactory manner under the circumstances.

From December 2nd to 6th, 1950, I visited the Crowsnest district in connection with a mine cave-in at Mine No. 204, McGillivray Creek Coal and Coke Co. Ltd., Coleman, in which two men were killed, and arrived there in time to assist in the recovery of the last body from the mine. While in the district I inspected Mine No. 1695, Hillcrest Mohawk Collieries Ltd., Bellevue, with respect to the extraction of pillars.

From May 1st to 4th, 1950, I was at the Foothills Collieries Ltd., Foothills, on account of gob heating in the old workings near the main hoisting and ventilating roadways.

From May 9th to 12th, 1950, and again from July 13th to 15th, 1950, I attended Strip Mine Board Meetings at Calgary.

On June 14th, 1950, a flash flood occurred at Cadomin, entombing five workmen. I assisted in the recovery work on the following dates: June 15th to 20th, June 24th to 28th, and August

7th to 9th. I also attended the inquest which was held at Cadomin from August 29th to September 1st, inclusive.

During September a fire broke out in the mine operated by the McLeod River Hard Coal Co. (1941) Ltd. I assisted in the work of isolating this fire from September 22nd to 28th, 1950.

I went to Drumheller on December 14th, 1950, to attend the inquest in connection with the fatality to Steve Lengyel, who was killed at the Star mine from an ignition of gas some six weeks earlier.

During each of the above visits to the various districts some time was spent in the District Inspectors' offices to discuss with each Inspector matters pertaining to his inspectorate. I found the district offices in a very orderly manner. I also visited as many mines as possible, and I was pleased to note that the spirit of co-operation existing between the owners and the Inspectors was very high and worthy of mention.

EDMONTON-CAMROSE INSPECTION DISTRICT

(J. THOMSON, *District Office, Edmonton*)

There were 88 mines operating in this district as of December 31st, 1950, as follows: Camrose 6, Castor 22, Edmonton 26, Halcourt 3, Pembina 15, Tofield 5, Westlock 3, Whitecourt 3, Wetaskiwin 1, Rochester 1, Slave 1, No. Area 2.

Of this number, 48 are strip pits located as follows: Camrose 5, Castor 7, Edmonton 9, Halcourt 2, Pembina 13, Tofield 3, Westlock 3, Whitecourt 2, Rochester 1, Slave 1, No Area 2.

The mines in the Prairie Creek area were transferred to the Edson Inspectorate during the year.

I inspected all operating mines and made 151 inspections; all serious accidents and complaints were investigated.

One hundred and fifty-one inspections were also made for The Workmen's Compensation Board.

I presided at the examinations held in the Parliament Building, Edmonton, for First Class Certificates, Second Class Certificates, Strip Mine Managers' Certificates and Mine Surveyors' Certificates on June 6th, 7th and 8th, 1950, also at the examinations for Third Class and Mine Electricians' (First and Second Class) Certificates on May 30th, 1950, and Strip Mine Foreman's Certificates and Strip Mine Blasters' Certificates on May 31st, 1950.

Two examinations for miners' certificates were held at the Terrace Building, Edmonton, on January 25th, 1950, and November 28th, 1950; 68 candidates passed the examination and were issued miners' certificates. There were 31 miners' provisional certificates and 64 miners' permits issued by this office during the year.

Five coal samples were collected and sent to the Research Council, University of Alberta, for analysis.

Eleven trade names were registered under The Coal Sales Act.

Seven new mines were opened, located as follows: No. 720, drift opening, by Ebert and Gailey, west of Nisku; No. 1713, slope opening, by the Wisla Brothers, Rosalind; No. 1055, strip mine, by Campbell and Fergstad, Round Hill; No. 1712, strip mine, by Marcus and Fedor, Warburg; No. 1715, strip mine, by Samuel Giovinazzo, Seba Beach; No. 1718, strip mine, by L. Ose, Rosalind; No. 1720, strip mine, by J. A. McDonald, Grande Prairie.

Five mines changed ownership as follows: No. 1435, from William Jones, Sr., to Thomas Mitchinson; No. 1572, from K. O. Quesseth to William Jones, Sr.; No. 1592, from Forbes and Lang to the Dales Brothers; No. 1677, from J. Reed and Son to The Forestburg Collieries Ltd.; No. 1709, from E. Miller to Crown Coal Co.

Ten mines closed down as follows: No. 91, Ottewell Coal Co., Clover Bar; No. 953, D. Wiltse, Forestburg; No. 1393, Ottewell Coal Co., Clover Bar; No. 1409, Gainford Collieries Ltd., Gainford; No. 1633, W. Fraser, Halcourt; No. 1636, J. B. St. Martin, Legal; No. 1650, J. Lynass, Forestburg; No. 1683, Continental Collieries Ltd., Seba Beach; No. 1687, J. Sturms, Genesee; No. 1701, R. S. Gailey and Sons, Devon.

Four mines were abandoned as follows: No. 1420, Red Flame Coal Co. Ltd., Round Hill; No. 1674, Michael and Martin Wisla, Rosalind; No. 1703, Michael and Martin Wisla, Rosalind; No. 1694, William Jones, Sr., Forestburg.

Seven accidents were reported to this office—two from falls of roofs, one from a fall of coal, two haulage accidents, one on the surface and one from miscellaneous cause. I regret to report one fatality at Mine No. 1628 in the Rabbit Hill district. This happened on the last working day of the year and while the workman was loading his last car, a slab of sandrock fell from between the timbers, killing him instantly.

No labour troubles were encountered at any of the mines in my district.

A shortage of coal orders resulted in large lay-offs during the spring and summer months, and even with skeleton crews the mines only worked one and two days per week.

There were two quarries operating in this district as of December 31st, 1950, as follows: Quarry No. Q1, J. B. Little and Sons Ltd., Edmonton; Quarry No. Q5, Acme Brick and Tile Co., Edmonton.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 129, Sundance Mines Ltd.—large new tipple built on the railroad track, fully electrified with vibrator screens, picking belts and spiralizers.

Mine No. 419, Alberta Coal Co. Ltd.—oil sprayers for oiling small size coals.

Mine No. 720, Harry Ebert—gasoline driven hoist.

Mine No. 724, S. H. Burnstad—loading ramp built at Round Hill station.

Mine No. 1046, Alberta Coal Co. Ltd.—a railroad track has been built from Halkirk to the mine, a distance of 14 miles.

Mine No. 1248, B. J. Gerla and W. Runge—new slope and all tipple equipment moved to the new site.

Mine No. 1435, T. Mitchinson—one 220 volt generator and Siskol coal cutter.

Mine No. 1578, Forestburg Collieries Ltd.—large steel tipple; railroad track built from the Forestburg station to the mine tipple, a distance of 10 miles; one 6½-yard dragline in strip pit.

Mine No. 1614, Stettler Coal Co.—large garage built to house the company trucks.

Mine No. 1626, J. B. Starky Co. Ltd.—One Goodman storage battery locomotive.

Mine No. 1642, J. Bradley and S. O'Brien—one air compressor; one radial coal cutter and rotary screen.

Mine No. 1644, Strawberry Creek Coal Co.—one 32 volt generator for lighting purposes; one D6 tractor.

Mine No. 1670, Lothian Collieries Ltd.—new tipple with shaker screen, rotary screen, belt conveyor; one TD18 International overhead shovel; one Warsop DP gas driven drilling machine.

Mine No. 1691, A. J. Shannon and J. Lang—small tipple with rotary screen.

Mine No. 1712, William S. Marcus—small tipple; gas driven conveyor and rotary screen.

CALGARY INSPECTION DISTRICT

(A. Muir, *District Office, Calgary*)

There were eight mines operating in this district as of December 31st, 1950, as follows: Nordegg 2, Saunders 2, Cascade 3, Pekisko 1.

During the year 92 inspections were made and reported upon in accordance with Section 5 of The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines, Edmonton.

During the year 66 inspections were made for The Workmen's Compensation Board, all of which were reported to the Board.

Three examinations for miners' certificates were held as follows: Nordegg, May 31st, 1950; Kananaskis, July 27th, 1950, and Canmore, December 12th, 1950. Fifty-two candidates were successful in obtaining their miners' certificates; in addition, 93 miners' permits were issued and 9 miners' provisional certificates were granted by this office.

Three coal samples were collected and sent to the Research Council, University of Alberta, for analysis.

One trade name was registered under The Coal Sales Act.

Mine No. 1516 changed ownership from G. C. Davies, Priddis, to its present owner, Peter M. Ramsay, 506-22nd Ave., W, Calgary.

Three mines were temporarily closed, namely: Sheep River Coal Co., Okotoks; Alberta Hard Coal Producers Ltd., 304 MacLean Block, Calgary; Chiniki Coal Co., Morley.

During the year one fatal accident occurred underground, caused by haulage; 20 serious accidents were reported, 17 of which were underground, the other three being on the surface. In addition to this, 38 slight injuries were reported. A considerable number of underground accidents are occurring on the haulage, and this matter has been the cause of lengthy discussions with the various managers as regards the need for more care on the part of the personnel engaged in this type of work.

Days lost through lack of railroad cars was as follows: Canmore Mines Ltd., 9 days; Alexo Coal Co. Ltd., 3 days; Bighorn and Saunders Creek Collieries, 7 days.

The manpower situation has been satisfactory, particularly during the latter part of the year. One operation complained of a shortage of miners, but this condition was rectified due to a very disastrous fire that took place at Nordegg, releasing quite a number of miners for employment at other locations.

There was a substantial loss of work as a result of lack of orders at various mines, namely Alexo Coal Co. Ltd., Alexo, 64 days; Bighorn and Saunders Creek Collieries, Saunders, 49 days; Canmore Mines Ltd., Canmore; 1 day. This condition, together with the nationwide railroad strike, snow conditions, breakdowns, etc., had quite a depreciative effect on the year's average output.

Two new appointments were made to the miners' examination board at Kananaskis, i.e. Mr. D. Shanks and Mr. J. Letterich.

There were three quarries operating in this district as of December 31st, 1950, as follows: Quarry No. Q2, Canada Cement Co. Ltd., Exshaw; Quarry No. Q3, Loder's Lime Co. Ltd., Exshaw; Quarry No. Q13, Rock Wool Products Ltd., Exshaw.

The following is a list of improvements and installations at the various mines in this district during the year:

Mine No. 2, Canmore Mines Ltd.—2,000 cu. ft. Ingersoll-Rand compressor; 2 Eickoff shaker engines.

Mine No. 1244, F. Wheatley and Sons—1 haulage engine compressed air; 2 new machine picks.

Mine No. 1667, Kananaskis Exploration and Development Co. Ltd.—2 G12½ Goodman shaker conveyors; 2 G15 Goodman shaker conveyors; 2 G20 Goodman shaker conveyors; 1 Goodman short wall coal cutter, 50 h.p.; 1 Anderson-Boyes short-wall coal cutter, 50 h.p.; 4 Joy safety service centres; 1 Parsons pyranol transformer, 150 KVA 2300-220 V; 1 Joy auxiliary fan, 1 h.p.; 1 blower fan, 5 h.p.; 1 Pickrose hoist, 10 h.p.; 1 Pickrose hoist, 5 h.p.; 2 Ingersoll-Rand radial machines, compressed air.

Surface equipment—3 50-ton truck storage bins; 1 500 CFM Sullivan air compressor; 1 Westinghouse pyranol transformer, 50 KVA, 2300-440 V; 3 transformers, 50 KVA, 2300-440 V.

At the mine the following surface buildings were erected: 1 compressor house, 20 ft. x 26 ft.; 1 electric and blacksmith shop, 15 ft. x 23 ft.; 1 powder house and distributing shed, 8 ft. x 10 ft.; 1 horse barn, 22 ft. x 26 ft.; addition to washhouse, 16 ft. x 40 ft.; 1 boiler room, 16 ft. x 40 ft.; 1 wash room, 12 ft. x 14 ft.; 1 first aid and mine rescue station, 20 ft. x 24 ft.

Camp buildings—1 H-type bunk house, each wing 20 ft. x 60 ft.; 2 bunk houses, 26 ft. x 28 ft.

Townsite—1 school, 26 ft. x 40 ft.; 2 houses, 24 ft. x 28 ft.; 2 houses, 20 ft. x 28 ft.; 4 houses, 20 ft. x 20 ft.; 2 houses, 12 ft. x 20 ft.

Mine No. 256, Brazeau Collieries Ltd. (Underground)—1 50 h.p. 2300 V motor, protected type, control-1-200 amp, 2600 volt oil circuit breaker; 1 2500 volt line starter equipped with overload relays; 1 Pickrose 12 h.p. electric hoist, Buxton approved, 3 phase 440 volt, control-1-50 amp, 600 volt oil circuit breaker; 1 explosion proof CR 1062 equipped with overload relays.

Surface—one 100 h.p. G.E. open motor; one 75 h.p. G.E. totally enclosed motor; one 10 h.p. G.E. totally enclosed motor; one 30 h.p. G.E. totally enclosed motor; one 25 h.p. Bepco totally enclosed motor; one 7½ h.p. G.E. totally enclosed motor; one 3 h.p. G.E. totally enclosed motor; one 25 h.p. Gompton Parkinson totally enclosed motor; one 7½ h.p. G.E. totally enclosed motor. All above motors 440 volts, 3 phase, 60 cycle.

Equipment—briquette mixer; briquette pre-heater conveyor; briquette dust conveyor; briquette cooling conveyor; briquette man lift elevator.

New buildings—electrician's warehouse; 700-ton storage bin; cooling conveyor building; skyway building; gantry; dust elevator.

Mine No. 852, Alexo Coal Co. Ltd.—three new Victor compressed air rotary coal drills; three Venturi air blowers to replace Coppus fans; one new CIR-RA7 cutting machine; one new 15 h.p. Brooks motor and CIR 1034 compensator, 440 volts, for shaker screen; two 25 KVA, 440 volt transformers at tipple substation; complete dust proofing plant at tipple to treat egg and stoker size coal (this includes pump and motor, heater, piping and all necessary safety switches, also automatic controls, also building to house this equipment); new main conveyor belt; new 40-gallon LaFrance fire engine and heated shed.

LETHBRIDGE INSPECTION DISTRICT

(E. H. Morgan, *District Office, Lethbridge*)

There were 26 mines operating in this district as of December 31st, 1950, as follows: Brooks 2, Champion 5, Lethbridge 9, Milk River 1, Pakowki 1, Redcliff 2, Taber 6.

Of this number, five are strip pits located as follows: Brooks 1, Lethbridge 1, Taber 3.

During the year there were 118 inspections made and reported upon in accordance with Section 5 of The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reported to the office of the Director of Mines.

In addition, there were 68 inspections made for the Workmen's Compensation Board, including the investigation of a fatal accident that occurred at the Saint Mary's Project.

Two examinations for miners' certificates were held at Lethbridge on August 26th, 1950, and December 9th, 1950. Thirty candidates passed the examination and were granted miners' certificates. In addition, this office issued 27 miners' provisional certificates and 122 miners' permits.

Four trade names were registered under The Coal Sales Act.

Changes of ownership occurred at Mines Nos. 672 and 772. Mine No. 672, situated north of Bow Island, was operated by William Annon and is now operated by Charles R. Cooke. Mine No. 772, situated northwest of Medicine Hat, was operated by G. A. Naylor, is now operated by Rudolph Radke.

The number of accidents reported to this office was 24, which included one fatality: falls of coal 3, falls of rock 5, pushing cars 2, horse haulage 2, loading coal 2, flying cardox shells 2, cutting machines 2, drilling machines 3, conveyors 1, slipped and fell 2.

The manpower situation here is fairly good, but experienced miners are not too plentiful. Generally speaking, the large number of displaced persons from Europe are good workmen and have materially helped in maintaining production. Many of the displaced persons are learning the English language very quickly, others find it more difficult, consequently 46% of the candidates for miners' certificates at the two examinations in Lethbridge failed because they could not read an Examiner's daily report.

The mines in the Lethbridge district did not lose as many working days in 1950 as they did in 1949, as an effort had been during the warm weather period, and as an inducement the made by the operators to persuade the trade to take more coal mines would give the trade a form of priority of delivery during the coal weather months in the ratio of the coal that had been bought by them in the warmer months; to my mind the scheme has some merit and without doubt has some effect. Days lost by the mines in the Lethbridge area were as follows: Chester Mine No. 1095, operated by Chester, Crabb and Chester, 42 days due to lack of orders; Federal Mine No. 1581, operated by J. J. Hamilton Coal Co., 41 days, 39 due to lack of orders and two due to a labour dispute; Standard Mine No. 1263 at Shaughnessy, operated by the Lethbridge Collieries Ltd., 43 days, 39 due to lack of orders and the other four due to failure to obtain railroad cars; Galt Mine No. 1464, operated by the Lethbridge Collieries Ltd., 32 days, 18 due to lack of orders and the other 14 due to a labour dispute.

There were five quarries operating in this district as of December 31st, 1950, as follows: Quarry No. Q4, Gunderson Brick and Coal Co. Ltd., Redcliff; Quarry No. Q6, Redcliff Premier Brick Co. Ltd., Redcliff; Quarry No. Q7, Redcliff Pressed Brick Co. Ltd., Redcliff; Quarry No. Q9, Medicine Hat Brick and Tile Co. Ltd., Medicine Hat; Quarry No. Q10, Alberta Clay Products Co. Ltd., Medicine Hat.

The following is a list of improvements and installations at the various mines in this district during the year:

New slopes were driven from the surface to the coal to replace the old slopes at each of the following mines: Mine No. 136, operated by Rhodes Brothers, Champion; Mine No. 1509, operated by P. Fontana, Champion; Mine No. 1565, operated by M. Popovich, Champion.

New tipples have been built to replace the ones destroyed by fire at Strip Mine 1404, operated by Kleenbirn Collieries Ltd., Eyremore; and at Mine No. 772, operated by Rudolph Radke, northwest of Medicine Hat.

Mine No. 1263, operated by Lethbridge Collieries Ltd., Shaughnessy—two A.B. shortwall combination cutters and shearers were installed; also one Jeffrey conveyor belt 30 inches wide, 700 feet long, used as a transverse belt to feed on to main conveyor belt, and a bore drilled from surface to a point between 7 and 8 face entries on 3rd South butt entry to shorten transmission power lines.

Mine No. 1464, operated by Lethbridge Collieries Ltd., Lethbridge—a new sand drying house was built at the surface and a bore from surface to a point near face of 2 N.E. entry to shorten length of transmission power lines. Below ground they installed the following: two Chicago pneumatic drills; two Victor drills; one Sullivan CLU; one Sullivan CR8 undercutter; two diesel locomotives and auxiliary equipment; one garage for housing locomotives; 8,000 feet of main entries was relaid with heavy steel for locomotive haulage.

Mine No. 1581, operated by J. J. Hamilton Coal Co., Lethbridge—portable truck loader put into operation.

Mine No. 1095, operated by Chester, Crabb and Chester, Lethbridge—installed below ground one new 3 ft. x 4 ft. centrifugal Canada pump.

COALSPUR-MOUNTAIN PARK INSPECTION DISTRICT

(A. L. LISTER, *District Office, Edson*)

There were 13 mines operating in this district as of December 31st, 1950, as follows: Coalspur 6, Mountain Park 4, Prairie Creek 3.

Of this number eight are strip pits, located as follows: Coalspur 4, Mountain Park 3, Prairie Creek 1.

There were 67 complete inspections in this district during the year and 27 partial inspections were made where fires and heatings were reported. In addition, all complaints and serious accidents were investigated and all inquests attended.

Seventy-two inspections were also made for the Workmen's Compensation Board.

One examination was held in Mercoal for miners' certificates during February, in which 25 candidates successfully passed the examination and were granted certificates; in addition, 64 miners' permits and 5 miners' provisional certificates were issued.

Four coal samples were collected and sent to the Research Council, University of Alberta, for analysis.

Twelve mine air samples were collected and forwarded to the Department of Mines and Resources, Ottawa, for analysis.

Two trade names were registered under The Coal Sales Act.

Seven prosecutions were instituted for contraventions of The Coal Mines Regulation Act as follows: a power shovel operator was prosecuted for operating a power shovel while same was not sufficiently guarded; a strip mine manager was prosecuted for allowing a power shovel to be operated while same was not sufficiently guarded; two mine agents were prosecuted for failing to file production sheets; two miners were prosecuted for riding on a trolley locomotive without proper authority; a fireboss was prosecuted for failing to withdraw all persons exposed to danger.

Five new mines were opened: During the year a new mine has been opened as an underground operation at Hinton by C. M. Woodley and H. Schnur, Mine No. 1714; some work has been done on a new stripping operation in the Mynheer seam at Drinnan, this operation is by Dunn and Finlay, Mine No. 1296; the North Western Coal and Oil Ltd. have opened a stripping operation at Mile 32, Robb, in the Val d'or seam, Mine No. 1157; Sterling Collieries Ltd. have opened a stripping operation at Mile 54 on the Lovett branch of the Coalspur area and will truck their coal to their present tipple, a distance of about eight miles, this stripping is in the Mynheer seam, Mine No. 769; King Coal and Lumber Ltd. have opened an underground mine in the Val d'or seam at Coalspur, Mine No. 1692.

There has been one change of ownership in this district. Hinton Hard Coal Co., Mine No. 1653, changed from Schnur and Sharp to Nickerson and Dixon.

Gregg River Collieries, Mine No. 1392, and Hinton Hard Coal Co., Mine No. 1653, both underground mines, have been closed down temporarily, and King Coal and Lumber Ltd. have closed down their strip mine at Coalspur.

Mine No. 282, Mountain Park Coal Co. Ltd. and Mine No. 1706, operated by Capostinski and Woodley, have been abandoned.

Forty-two accidents were reported to this office during the year, including six fatal accidents. Particulars in connection with the fatal accidents are as follows: 1 on the surface due to electrical shock, 5 due to the flooding of underground workings. There were 11 surface accidents and 2 strip mine accidents all classed as miscellaneous, and one strip mine accident due to the use of explosives. Underground—9 accidents due to face working, 6 haulage accidents, and 7 accidents classed as miscellaneous.

There were approximately 76 days lost at the mines due to railroad car shortage and approximately 35 days lost due to lack of orders.

Absenteeism was almost nil during the past year, and the turnover of men very slight; while the class of men employed during the year was much better than previously, there is still a pronounced shortage of certified miners throughout the district.

In accordance with Section 36, sub-section (1) of The Coal Mines Regulation Act, T. McQueen was appointed as a member of the miners' examination board by the Director of Mines.

There was one quarry operating in this district as of December 31st, 1950, as follows: Quarry No. Q12, Mike Errico, Cadomin.

The following is a list of improvements and installations at the various mines in this district during the year:

Mine No. 693, Cadomin Coal Co.—a belt conveyor has been installed to take the coal from their 4,800-foot level to the tipple; a portable compressor has been purchased and put into operation; one 300 h.p. Fairbanks-Morse diesel generating unit has been put into operation, with housing to cover same; a two-belt conveyor system has been installed across the tipple bridge; a heating boiler has been installed at the Upper East Mine; a 37-passenger bus has been purchased for transporting men; the Assay furnace has been replaced by a larger and more modern unit; and the 15-ton scale has been replaced by a 30-ton scale.

Mine No. 769, Sterling Collieries Ltd., have purchased five 25-ton used Mac trucks; one 150 h.p. steam engine for driving generator; one Le Roi 105 cu. ft. compressor; one 300 amp arc welder; one D-7 caterpillar.

Mine No. 771, Foothills Collieries Ltd., have built a new warehouse; purchased and put into service one new 3-ton Mercury truck; added an aftercooler to their 1,000 c.f.m. compressor, four Turbinair hoists and one booster fan; they have also done some drilling southeast of their present slope for the purpose of proving the continuity of the Val d'or seam.

Mine No. 846, The McLeod River Hard Coal Co. (1941) Ltd., have erected a three-storey building suitable to accommodate 45 men; a steam hoist has been purchased and the foundation and hoist room are complete, but hoist is not ready for operation; an A.N. type permissible Mancha storage battery locomotive has been put into service on the 4 East level; a Goodman and a Jeffrey trolley locomotive, each 10 tons, have been put into service on 4 West level; a G.E. storage battery locomotive has been put into service for gathering on 4 West level; 2 small Tramaster air locomotives have been put into service on 5 Level.

Mine No. 905, Luscar Coals Ltd., upon the cessation of operations at Mountain Park, the following equipment was purchased from the Mountain Park Coals by Luscar Coals Ltd.: one 54 Bucyrus Erie 2½-yard shovel; one 22 Bucyrus Erie ¾-yard shovel; one Caterpillar D8 tractor; one Gar Wood scraper bucket; one 315 cu. ft. compressor Le Roi; one 600 cu. ft. compressor Le Roi; one Cleveland wagon drill; three Euclid trucks (rock). During the summer the Luscar Coals Ltd. undertook a fairly extensive program of drilling, with four diamond core drills prospecting and proving both underground and strip reserves, approximately 20,000 feet of hole being drilled, all drilling done from the surface. The Luscar Coals Ltd. is adding another unit to their briquette plant, which it is expected will boost the output of briquettes from this mine to about 56 tons per hour, and it is expected this new installation will be ready for operation early in the new year. To provide power for this unit they have installed a Caterpillar diesel generating set, having a rating of 296 KW and have extended their plant buildings as follows: diesel generator house; diesel storage house; asphalt storage; increased slack bin; extra accommodation for asphalt tanker cars.

Mine No. 1002, Coal Valley Mining Co., purchased one Bucyrus Erie 2½ cu. yd. diesel shovel, convertible to 2½ cu. yd. dragline; an extension has been made to their machine shop by an 18 ft. x 72 ft. construction of wood and corrugated sheet iron on concrete footings; they have also enlarged and remodelled their clinic hospital and provided space for an X-ray room and small operating room.

Mine No. 1157, North Western Coal and Oil Ltd., have stripped off the Val d'or seam for a distance of approximately 1,100 feet and to an average lift of about 30 feet. The equipment at this mine consists of the following: one Dominion loading shovel 1½ cu. yd.; one Dominion loading shovel 2 cu. yds.; three D8 bulldozers equipped with ploughs; one overhead loader; two wagon drills; one compressor capacity 600 cu. ft.; one compressor capacity 250 cu. ft.; four three-ton trucks. In addition, about ¾-mile of all-weather highway has been constructed. They have also built a tipple as follows: bin having a capacity of about 40 tons, constructed of fir timber and sheet iron, at the lower end of which is a chain feed and crusher feeding on to a 300-foot conveyor belt operated by a 25 h.p. Radecon, belt capacity 180 tons per hour. They have installed a Niagara screen and two conveyor belts to carry the screened coal to the chute and a

Wilson boxcar loader, 15 h.p. dust-proof motor, operates the screen and the belts by a 7½ h.p. motor. Power is supplied by two generators (98 KVA and 108 KVA) and which are driven by two 200 h.p. diesel engines. A repair shop has been built for repairing bulldozers and trucks.

Mine No. 1692, King Coal and Lumber Ltd., has put up a two-shower washhouse; a building about 12 ft. x 18 ft. to house the stationary compressor; a stable suitable for one horse.

Mine No. 1714, C. M. Woodley and H. Schnur, have made the following installations: one Caterpillar diesel generator; one electric hoist; one electric operated fan; one coal storage bin; housing (14 ft. x 20 ft.) over the generator and hoist; underground they have installed one Siskol flame-proof electric coal cutter and one permissible electric coal drill.

CROWSNEST INSPECTION DISTRICT

(J. D. B. Brown, *District Office, Blairmore*)

There were nine mines operating in this district as of December 31st, 1950, as follows: Crowsnest 8, Pincher 1.

Five strip pits were in operation, all in the Crowsnest area, one less than during 1949. The following coal companies operate strip pits on the same property as they operate their underground mines: Mine No. 88, The International Coal and Coke Co. Ltd.; Mine No. 87, West Canadian Collieries Ltd.; Mine No. 396, West Canadian Collieries Ltd. (2); The Hillcrest Mohawk Collieries Ltd. operate Tent Mountain Strip Mine No. 1695.

There were 102 complete inspections and 23 special inspections made in this Inspectorate during the year by the Assistant District Inspector and myself. There were visits to the various mines for the purpose of collecting air, coal and dust samples, and to check complaints. All serious accidents were investigated and measures were instituted to ensure against a repetition of same.

Ninety-eight inspections were also made for the Workmen's Compensation Board.

Four examinations for miners' certificates were held in this district during the year as follows: Coleman, March 27th; Bellevue, March 28th, July 27th and October 16th. Forty miners' certificates were granted at these examinations. During the year a total of 66 miners' permits were issued, together with three miners' provisional certificates.

Nine coal samples were collected from the various mines and forwarded to the Research Council, University of Alberta, for analysis.

Fifty-five rock dust samples from roadways were collected, eight of these were forwarded to the Research Council of Alberta for analysis. The remainder of the samples were tested in the district office laboratory.

Two mine air samples were taken and forwarded to the Bureau of Mines in Ottawa for analysis.

There were ten prosecutions during the year and convictions were obtained in all cases. A fireboss was proceeded against on five separate charges for not fulfilling the requirements of the Explosive Regulations; two examiners were fined for not making the proper pre-shift examinations, and two miners and a timber packer were convicted for having in their possession prohibited articles.

One strip mine was temporarily closed, Racehorse Mine No. 1710, however, operations may resume during 1951.

Forty-three accidents were reported to this office during the year, 7 of which were fatalities. The accidents and the location of same are classified as follows: surface—1 fatality, 7 serious and 5 slight. Underground: 6 fatalities, 11 serious and 13 slight. There is a reduction in the number of accidents compared to the previous year and a slight decrease in the severity of the non-fatal accidents, however, there were two more fatalities than we had in 1949.

Labour disputes did not cause any lost time in this area during 1950, but bad weather during the early part of the year caused an average loss of two days for each mine. A shortage of railroad cars caused the mines to lose an average of 21 days each, equivalent to approximately 200,000 tons of coal lost by that cause alone.

The labour situation can be assessed as follows: during 1950 there was always enough labour in the district to supply all that was required and this demand was very small; during the latter part of the year the demand dwindled to almost nothing as there appeared to be a tendency of most companies to keep the number of workmen to a minimum. There is a sufficient number of most classes of mine labour within this district to supply any normal demands the mines may require for the present.

There were 275 mine days lost during the year from various causes, including the 147 mine days lost due to a shortage of railroad cars. Approximately 20 days were lost by each of the mines caused by a lack of orders, inclement weather and minor breakdowns.

One appointment was made to the Miner's Examination Board; Mr. J. Smith of Bellevue was appointed to the Board in place of Mr. D. Holly who is on a six months' leave of absence.

There was one quarry operating in this district as of December 31st, 1950, as follows: Quarry No. Q8, Summit Lime Works Ltd., Sentinel.

The following is a list of improvements and installations at the various mines in this district during the year:

Mine No. 87, West Canadian Collieries Ltd. (Bellevue Mine), on the surface they have installed the following in their tipple—1 Allis Chalmers 8 ft. sink and float; 2 Dillon screens, 5 ft. x

10 ft.; 3 8-inch cyclones; 1 fifty-ton refuse bin for sink and float; shaker screens 5 ft. x 8 ft.; 2 S.R.L. Allis Chalmers; 2 13-ft. diameter mixing tanks and drags for sink and float; Ty-Rock screens. Underground they replaced the "Joy" loader with a Mavor Coulson loader and installed a Holman hoist in No. 5 level, 61 district.

Mine No. 88, International Coal and Coke Co. have installed a 50-H.P. 30,000 c.f.m. fan at York Creek and made extensive improvements in their cleaning and drying equipment; built an 80 ton storage bin and improved facilities for commercial coal. Underground they have installed a compressed air operated Joy loader.

Mine No. 133, Hillcrest-Mohawk Collieries Ltd., are at present making extensive preparations for a "flash" type drier which should be completed in 1951.

Mine No. 199, Beaver Mines Coal Co. have built a garage 50 ft. x 30 ft. and a washhouse complete with facilities for about 30 men. They have purchased a compressor and air picks and built a shed to house same.

Mine No. 396, West Canadian Collieries Ltd. (Greenhill Mine), on the surface they installed the following in the tipple: 1 Parry drier of the "flash" type; 2 Allis Chalmers 6 ft. x 10 ft.; an assay office; steel floor in dry washery building; 50 ton slack bin with stainless steel sides; one 10 ton surge bin for the sink and float; 2 Dillon screens 40 ft. x 7 ft. The capacity of the Parry drier is about 75 tons per hour. Underground they have installed two more Hunslet 65 H.P. diesels and built the necessary shelters, fuel storage and service sheds for same.

Mine No. 1695, Hillcrest Mohawk Collieries Ltd. Tent Mountain strip mine, have purchased another Dominion 2 yd. shovel; one D7, also a DT14.

DRUMHELLER INSPECTION DISTRICT

(J. HORNE, *District Office, Drumheller*)

There were 20 mines operating in this district as of December 31st, 1950, as follows: Drumheller 16, Gleichen 4.

Of this number 3 are strip pits and all are located in the Drumheller area.

There were 124 inspections made in this Inspectorate during the year by Mr. R. Shaw, Asst. District Inspector of Mines, and myself; all serious accidents were investigated and all inquests attended. In addition, all complaints were investigated and reported upon to the Director of Mines.

One hundred and five inspections were also made for The Workmen's Compensation Board.

Miners' examinations were held in Drumheller March 31st and November 3rd and 4th; 81 miners' certificates were issued. During the year 8 miners' provisional certificates and 69 miners' permits were issued.

Three coal samples were collected and sent to the Research Council, University of Alberta, for analysis.

Seven mine air samples were collected and forwarded to the Department of Mines and Resources, Ottawa, for analysis.

One trade name was registered under The Coal Sales Act.

Four prosecutions were instituted for contraventions of The Coal Mines Regulation Act and convictions were gained in each case, viz., three charges were instituted for committing a dangerous act, an Agent was prosecuted for failing to forward monthly production returns to the Director of Mines.

Three mines were temporarily closed as follows: Mine No. 728, Maple Leaf Coal Co.; Mine No. 1666, Livingstone Coal; Mine No. 1700, Twin Hill Exploration Co.

Four mines were abandoned as follows: Mine No. 620, Newcastle Collieries Ltd.; Mine No. 1493, Western Gem and Jewel Collieries Ltd.; Mine No. 1544, Castle Coal Co.; Mine No. 1589, Arcadia Coal Co. Ltd.

Fifty-one accidents were reported to this office during the year of which 4 occurred on the surface and 47 underground. I regret to report that 5 fatal accidents occurred in this district during the year, 3 by falls of rock, 1 by explosion of methane and 1 by tipple machinery.

Due to dismissal of a workman for smoking on the tipple, Mine No. 402, Red Deer Valley Coal Co. was on strike for the period June 5-7, 1950. The workman was reinstated.

Due to a dispute over changing direction of haulage motor, Mine No. 422, Commander Mine, was on strike February 13, 1950.

Due to dismissal of a driver, Mine No. 436, Star Mine, was on strike February 4, 1950; after due consideration the driver was reinstated.

Due to dismissal of a miner, Mine No. 1493, Western Gem and Jewel Collieries was on strike February 27-28, 1950; miner was reinstated.

No serious complaints were received on railroad car shortage; Mine No. 1484, Atlas Mine; Mine No. 1491, Murray Collieries Ltd.; Mine No. 1573, Monarch Coal Mining Co. each lost one week's work as a result of repairs being made to the Canadian Pacific Railway bridge at East Coulee.

The manpower situation has been adequate, due perhaps to the abandonment of various mines in this district (as mentioned above), the unemployed workmen from these mines were absorbed to a great extent by the other mines in this area.

Days lost due to a shortage of orders: Mine No. 346, Rosedale Collieries Ltd.—24; Mine No. 402, Red Deer Valley Coal Co. Ltd—10; Mine No. 422, Commander Mine—8; Mine No. 436, Star Mine—22; Mine No. 620, Newcastle Collieries Ltd.—14;

Mine No. 728, Maple Leaf Coal Co.—29; Mine No. 1484, Atlas Mine—12; Mine No. 1491, Murray Collieries Ltd.—1; Mine No. 1493, Western Gem and Jewel Collieries Ltd.—14; Mine No. 1511, Aetna Coal Co. Ltd.—68; Mine No. 1570, Wayne Coal Ltd. —73.

Messrs. T. Campbell, Mine Manager, and J. Conroy, Miner, were appointed to the miners' examination board during the year.

The following is a list of improvements and installations at the various mines in this district during the year:

Mine No. 402, Red Deer Valley Coal Co. Ltd., two 1 H.P. La-Del aerial flow permissible blower fans; thirty Simplex roof jacks; one 10-ton Goodman trolley locomotive; one 400-ft. Goodman troughed belt conveyor; one 50 KVA pyranol transformer; two F.K. 120 circuit breakers; one 425-ft. 36-inch troughed belt conveyor with Sutcliffe rollers; one D.T.6 International caterpillar tractor; one 40-ft. lump coal feeder belt and new 26-inch conveyor belt to rock dump chute.

Mine No. 620, Newcastle Collieries Ltd., one 7.5 H.P. Brown Fayro tugger hoist; one Little Giant coal drill; three G20 Goodman shaker conveyors.

Mine No. 1265, Standard Coal Co., one 3 H.P. Siskol coal cutter; one 1½ H.P. tugger hoist.

Mine No. 1299, Empire Mine, one 5-ton Atlas battery locomotive with extra set of Exide batteries and box; one 10 H.P. tugger hoist; one 5 H.P. tugger hoist; one 27 K.W.M.G. set in fireproof vault.

Mine No. 1431, Consumers Mine, one 10 H.P. B5 Sullivan undercutter; one 2 H.P. fan motor.

Mine No. 1436, Royalty Coal, one 15 H.P. La-Del shaker conveyor; one 10-ton Gurney truck scale.

Mine No. 1484, Atlas Mine, one permissible Little Giant coal drill; one 1 BU.-7G permissible Joy loader; one 4½-ton type B Atlas battery locomotive; one 75 KVA pyranol transformer.

Mine No. 1491, Murray Collieries Ltd., one Sullivan C.L.U. track mounted coal cutter, three 50 KVA-MLH type C oil cooled transformers enclosed in fireproof vault; 2,000 ft. 3,000-volt wire armoured cable; one 17½ K.W. M.G. set enclosed fireproof vault.

Mine No. 1573, Monarch Coal Mining Co. Ltd., two 100 KVA pyranol transformers; two F.K.-C.G.E. oil circuit breakers; one 6-ton Mancha battery locomotive; one G.E. M.G. charging set with Hertner controlling switch gear; one 12 ft. x 5 ft Dillon screen; five dwelling houses for employees, three of which are 26 ft. x 28 ft., and two 24 ft. x 26 ft.

Mine No. 1669, Joy Coal, one C.E.7 Sullivan undercutter; one G12½ Goodman shaker conveyor; one 15-ton Fairbanks truck scale; one office 18 ft. x 12 ft.

STETTLER INSPECTION DISTRICT

(R. SHAW, *District Office, Stettler*)

There were 48 mines operating in this district as of December 31st, 1950, as follows: Drumheller 8, Carbon 12, Ardley 9, Big Valley 3, Castor 7, Sheerness 9.

Of this number 26 are strip pits located as follows: Drumheller 2, Carbon 3, Ardley 7, Big Valley 3, Castor 3, Sheerness 8.

One hundred and fourteen inspections were made and reported upon in accordance with Section 5 of The Coal Mines Regulation Act; all serious accidents and complaints were investigated.

Sixty-one inspections were also made for The Workmen's Compensation Board.

Nineteen miners' permits were issued by this office during the year.

Six trade names were registered under The Coal Sales Act.

Three prosecutions were instituted for contraventions of The Coal Mines Regulation Act, two convictions were obtained for failure to forward to the Director of Mines completed forms relating to monthly returns of production, and one for operating a mine without a certified person in charge.

Two new strip pits were opened on the banks of the Red Deer river—Mine No. 1716, West of Fenn, operated by A. Blair of Delburne; Mine No. 1719, West of Morrin, operated by A. Notland of Morrin.

A permit to re-open the Foye Mine No. 1515, was granted to E. R. James and O. Kliche of East Coulee.

One underground mine and two strip pits changed ownership as follows: Mine No. 1237 from R. Davis of Halkirk to its present operator, D. Dryden of Halkirk; Mine No. 486 from M. Litke of Hanna to its present operator, A. Litke of Dowling; Mine No. 1343 from Castor coal and Construction Co. to its original owner J. Haden of Castor.

Seventeen accidents were reported to this office during the year, one of which occurred on the surface and sixteen underground. There were no fatal accidents.

A one day's stoppage of work resulted on November 27th, 1950, when employees of the Hy Grade Mine refused to work until explosives of pellet type were re-introduced for the breaking down of coal.

The number of days lost due to a shortage of railroad cars is as follows: Midland Coal Mining Co.—5, Hy Grade Mine—10, Brilliant Coal Co.—7, the loss for the greater part can be attributed to the suspension of work on the railways during a period in August, 1950.

With the exception of a shortage of skilled labour, particularly in connection with mechanized mining, the manpower situation remains good.

Sixty-six days were lost by the various mines in this district due to a lack of orders and various other causes such as holidays, mine disability and frigid weather conditions.

There was one quarry operating in this district as of December 31st, 1950, as follows: Quarry No. QII, Gordon L. Kidd, Drumheller.

The following is a list of improvements and installations at the various mines in this district during the year:

Mine No. 53, Kneehill Mine, one approved Little Giant coal drill.

Mine No. 291, Sunset Coals, one new Fairbanks Morse 10 H.P. pump.

Mine No. 367, Midland Coal Mining Co., three G-20 Goodman 20 H.P. duckbill units; five approved Victor coal drills.

Mine No. 710, East Trochu Coal Mine, one Jeffrey 18 inch x 12 inch Flexroll crusher; coal bins remodelled for a larger capacity.

Mine No. 864, Big Valley Collieries Ltd., new tipple erected housing the following equipment—one 65-ft. x 30-in. belt conveyor with 10 H.P. drive; one 7-ft x 28-in. feeder with 3 H.P. motor; one 9-ft. x 14-ft. shaker picking table with 3 H.P. motor; two shaker screens 22-ft. x 4-ft. and 16-ft. x 4-ft. with a 3 H.P. drive, total capacity of bins 250 tons.

Mine No. 1258, Brilliant Coal Co., surface installations—one triple deck Dillon vibrating screen; one Stearns electric magnetic pulley; new building housing the shaft hoist.

Mine No. 1421, Hy Grade Mine, a new slope completed of 8-ft. x 10-ft. dimensions, 320-ft. long on a 15 degree pitch, to facilitate the handling of materials and heavy equipment into the mine, also providing a secondary return air outlet; machine shop; two lathes 18 in. x 6 ft. and 26 in. x 12 ft. respectively; one shaper 22 in. x 24 in.; one radial drill; one Lincoln welder, 15 H.P. magnetic starter; five 2 H.P. motors; two Atlas storage battery locomotives (6 tons each); fifty mine cars.

Mine No. 1499, Nutall and Davidson, one Bator overhead loader.

Mine No. 1597, Crystal Mine, one Bucyrus tractor carrying a 12-ft. blade.

Mine No. 1655, J. Wakaruk and Partners, power change-over from compressed air to electrical; one C.E. 7 Sullivan coal cutter; one Little Giant coal drill.

Mine No. 1716, A. Blair, one 10-ton Fairbanks Morse scale.

ELECTRICAL INSPECTION OF MINES

(B. Tait, Electrical Inspector of Mines)

During 1950 there were 97 mines in Alberta using electrical equipment. Six of these ceased operations during the year, leaving 91 electrified mines in operation at December 31st, 1950. In addition to these, 6 small mines use miner's electric lamps, battery charging apparatus, or electric signals. Electric shot-firing apparatus is used in all mines where blasting operations are carried on.

Mines electrified during 1950: Forestburg Collieries Ltd., Forestburg; Rose Bush Coal Mine, Edberg; North Western Coal and Oil Co. Ltd., Robb; Consumer Mine, Rosebud; W. McMillan, Rosebud; Cozy Coal Mine, Drumheller; Woodley and Schnur, Hinton.

Electrified mines closed during 1950—Mountain Park Coals Ltd., Mountain Park; Newcastle Collieries Ltd., Drumheller; Maple Leaf Coal Co., Drumheller; Western Gem and Jewel Collieries Ltd., Drumheller; Rose Bush Coal Mine, Edberg; Gregg River Coal Co., Cadomin.

One hundred and twelve inspections and 6 partial inspections were made during 1950. All mines using electrical equipment were inspected, except four which were electrified toward the end of the year.

Accidents due directly and indirectly to the use of electricity at mine, fatal—2, non fatal—9.

Descriptions of accidents—

At Coal Valley Mining Co. an electric dragline was being overhauled outside the machine shop. The repairs had been about completed and the mine electrician had the power on and was grinding the commutator of the main generator. A workman apparently crawled in under the machine and stood up putting his head up through an inspection opening in the frame. His head came in contact with one of the three concentric 2,300-volt collector rings. Artificial respiration was applied as soon as he was discovered, but he was pronounced dead on arrival of the doctor.

At the Star Mine of the Rosedale Collieries, an explosion occurred at 7 West Entry and the Main Entry, killing one man and injuring two others, one with face burns and the other with face and hand burns. Haulage on the main entry is by trolley locomotive. This mine is not considered gaseous, open type electrical equipment being used. A raise had been driven in 7 West, about 70 feet from the main, up to a coal seam approximately 40 feet above the seam being worked. Apparently a gas feeder filled up this raise and backed an explosive mixture out on the trolley haulage road. I am of the opinion that the explosive mixture of gas and air was ignited by the trolley locomotive, which was coming to a stop at 7 West when the explosion occurred. The motorman was one of those burned.

At the McLeod River Hard Coal Co., Mercoal, a trackman received a severe shock. He was crossing between mine cars with tools on his shoulder when a bar he was carrying came in contact with the trolley wire.

A miner using a coal drill underground at the Midland Coal Mining Co., Drumheller, received burns on his left chest when the drill cable became ruptured close to the drill.

At the Standard Mine of the Lethbridge Collieries Ltd., a coal drill operator injured his left eye when the drill cable flashed where it enters the drill.

A workman in the briquette plant of the Kananaskis Exploration and Development Co. received a flash burn to his eyes. He was using an extension cord when the lamp exploded in front of his face. Globes and guards were supplied for this work but apparently had been removed.

At Brazeau Collieries Ltd. an engineer received burns to his forehead. A switch flashed when he was operating same.

At the Greenhill Mine of the West Canadian Collieries, a workman received a burn to his ear when a fuse exploded.

At the McGillivray Creek Coal and Coke Co., Coleman, a motorman of a surface trolley locomotive received a burn on his arm. He placed his lunch bucket against lighting wires on locomotive causing an arc.

It will be noted from above that coal drill cables caused two accidents. The use of coal drills has greatly increased during the past few years. Although not serious these accidents could have been serious had an explosive mixture been present at the time. The weak point of these cables is at or near the point of entry into the drill, due to the continual bending of the cable at this point. Orders have been given to periodically cut off a few feet of cable at the drill end.

Major electrical installations at mines during 1950 are as follows:

Forestburg Collieries, Forestburg, a new tipple and coal preparation plant with motors totalling 318 H.P.

Northwestern Coal and Oil Co., Robb, new powerhouse with diesel driven generators, capacity 206 KVA; new tipple and coal preparation plant with motors totalling 78 H.P. to date.

Cadomin Coal Co., Cadomin, one belt conveyor in slope with a 100 H.P. motor; two belt conveyors on surface each with a 25 H.P. motor.

Kleenbirn Collieries Ltd., Eyremore, 138 H.P. in motors, installed following the fire which destroyed their plant.

Canmore Mines Ltd., 2 hoists, a fan and other motors to a total of 310 H.P.

Brazeau Collieries Ltd., Nordegg, installed motors totalling 333 H.P.

Greenhill Mine, West Canadian Collieries Ltd., Blairmore, motors totalling 260 H.P.

Bellevue Mine, West Canadian Collieries Ltd., Bellevue, motors totalling 436 H.P. mostly in coal preparation.

Luscar Coals Ltd., Luscar, motors totalling 212 H.P.

There were numerous smaller installations during 1950 with motors to a total of 2235 H.P., exclusive of above "major installations".

The total horse power of motors, connected load, in use at the mines during 1950, is as follows:—

(trolley and battery locomotives not included)

Surface		Underground	
Duty	H.P.	Duty	H.P.
Winding	9892	Pumping	4625
Ventilation	3101	Rope Haulage	1271
Air Compressing	6793	Conveying and Loading	1644
Miscellaneous	22153	Miscellaneous	11975
Total	41939	Total	19515

Total above and below ground 61,454 H.P.

The figures below show the trend in the use of certain types of electrical equipment underground.

	1945	1946	1947	1948	1949	1950
Coal cutting machines	147	155	166	184	184	197
Battery locomotives	32	37	39	39	41	47
Trolley locomotives	15	16	19	22	23	29
Conveyors	23	27	38	47	74	92
Coal drills	31	40	52	59	79	91
Mobile face loaders	....	....	1	6	7	7

Kilowatt hours of energy purchased by mines from Central Stations:—

Year	K.W.H.
1938	24,611,920
1939	27,575,926
1940	31,660,119
1941	35,973,384
1942	41,491,573
1943	41,491,378
1944	39,349,384
1945	42,790,653
1946	46,012,415
1947	47,892,597
1948	49,724,365
1949	53,590,982
1950	50,418,029

The majority of electrified mines are supplied with power from Central Stations. In addition there were in use during the year, local steam plants with a capacity of 9030 KVA and diesel and gasoline plants with a capacity of approximately 1386 KVA.

Some of the mines are experiencing some difficulty in obtaining suitable electrical equipment and wiring materials, due no doubt to the increased demand for construction and defence requirements.

ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1949:

Calendar Year	Short Tons	Value
1886..................	43,220	$ 81,112
1887..................	74,152	157,577
1888..................	115,124	183,354
1889..................	97,364	179,640
1890..................	128,753	198,298
1891..................	174,131	437,243
1892..................	178,970	460,605
1893..................	230,070	586,260
1894..................	184,940	473,827
1895..................	169,885	382,526
1896..................	209,162	581,832
1897..................	242,163	630,408
1898..................	315,088	787,720
1899..................	309,600	774,000
1900..................	311,450	778,625
1901..................	340,275	850,687
1902..................	402,819	960,605
1903..................	495,893	1,117,541
1904..................	661,732	1,404,524
1905..................	931,917	1,993,915
1906..................	1,246,360	2,614,762
1907..................	1,591,579	3,836,286
1908..................	1,685,661	4,127,311
1909..................	1,994,741	4,838,109
1910..................	2,894,469	7,065,736
1911..................	1,511,036	3,979,264
1912..................	3,240,577	8,113,525
1913..................	4,014,755	10,418,941
1914..................	3,683,015	9,350,392
1915..................	3,360,818	8,283,079
1916..................	4,559,054	11,386,577
1917..................	4,736,368	14,153,685
1918..................	5,972,816	20,537,287
1919..................	4,933,660	18,205,205
1920..................	6,907,765	30,186,933
1921..................	5,909,217	27,246,514
1922..................	5,990,911	24,351,913
1923..................	6,854,397	28,018,303
1924..................	5,189,729	18,884,318
1925..................	5,869,031	20,021,484
1926..................	6,503,705	20,886,103
1927..................	6,934,162	21,982,058
1928..................	7,336,330	23,532,414
1929..................	7,150,693	22,928,182
1930..................	5,755,528	18,063,225
1931..................	4,564,015	13,342,675
1932..................	4,870,648	13,526,309
1933..................	4,718,788	12,307,258
1934..................	4,753,810	12,556,099
1935..................	5,462,894	14,094,795
1936..................	5,696,960	14,659,705
1937..................	5,562,839	14,563,911
1938..................	5,251,233	13,698,470
1939..................	5,519,208	14,415,281
1940..................	6,203,839	16,377,959
1941..................	6,969,962	19,382,471
1942..................	7,754,053	22,624,410
1943..................	7,676,726	24,030,686
1944..................	7,428,708	26,814,957
1945..................	7,800,151	27,751,377
1946..................	8,826,311	33,441,930
1947..................	8,070,430	36,439,095
1948..................	8,123,255	42,217,449
1949..................	8,616,855	44,644,153
Total.............	245,313,770	812,920,891

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1949 the mine output figures are given.

ANNUAL CONSUMPTION OF COAL IN CANADA 1902 - 1949

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1949:

Year	Canadian*		Imported coal "entered for consumption"				Total	Per Capita
			From U.S.A.	From Gr. Britain	Total """			
	Short tons	%	Short tons	Short tons	Short tons	%	Short tons	
1902	5,376,413	53.1	4,656,286	101,726	4,734,559	46.9	10,110,972	1.840
1903	6,005,735	47.3	6,520,931	184,593	6,678,450	52.7	12,684,185	2.245
1904	6,697,183	47.9	7,238,869	85,687	7,297,482	52.1	13,994,665	2.402
1905	7,032,661	49.4	7,233,738	68,500	7,215,446	50.6	14,249,107	2.374
1906	7,927,560	50.5	7,787,338	67,014	7,758,325	49.5	15,685,885	2.573
1907	8,617,352	45.0	10,588,697	54,325	10,549,503	55.0	19,166,855	2.990
1908	8,156,478	47.3	10,203,355	97,514	10,195,424	52.7	19,351,902	2.921
1909	8,913,376	47.9	9,805,253	67,671	9,711,826	52.1	18,625,202	2.739
1910	10,532,103	50.2	10,545,451	51,451	10,437,123	49.8	20,970,226	3.001
1911	9,822,749	40.5	14,510,129	48,963	14,424,949	59.5	24,247,698	3.364
1912	12,385,696	46.0	14,557,124	38,668	14,549,104	54.0	26,934,800	3.645
1913	13,450,158	42.6	18,145,769	37,825	18,132,387	47.4	31,582,545	4.138
1914	12,214,403	45.5	14,687,853	33,101	14,637,920	54.5	26,852,323	3.408
1915	11,500,480	48.1	12,450,796	15,098	12,406,212	51.9	23,906,692	2.995
1916	12,348,036	41.3	17,576,202	4,401	17,517,820	58.7	29,865,856	3.733
1917	12,313,603	37.2	20,848,009	9,451	20,810,132	62.8	33,123,735	4.110
1918	13,160,731	37.8	21,674,826	3,761	21,611,101	62.2	34,771,832	4.268
1919	11,611,168	40.3	17,292,913	344	17,236,269	59.7	28,847,437	3.471
1920	14,025,566	42.9	18,752,981	...	18,868,741	57.1	32,694,307	3.821
1921	12,715,734	41.1	18,300,081	1,591	18,258,387	58.9	30,974,121	3.525
1922	13,044,352	50.2	12,255,555	765,980	12,962,189	49.8	26,006,541	2.916
1923	15,070,962	41.8	20,417,239	572,570	20,967,971	58.2	36,038,933	4.000
1924	12,529,358	42.8	16,405,344	317,112	16,714,143	57.2	29,243,501	3.198
1925	12,125,290	42.6	15,744,957	604,117	16,331,971	57.4	28,457,261	3.062
1926	15,086,296	47.7	16,204,405	287,299	16,565,555	52.3	31,651,851	3.349
1927	15,944,983	46.7	17,266,434	907,220	18,177,303	53.3	34,122,286	3.541
1928	16,487,807	50.0	15,830,688	682,755	16,515,582	50.0	33,003,389	3.356
1929	16,387,461	48.0	16,780,452	843,502	17,724,132	52.0	34,111,593	3.401
1930	14,052,671	43.3	16,971,933	1,144,861	18,412,039	56.7	32,464,710	3.180

1931........	11,682,779	47.7	11,793,798	987,442	12,828,327	52.3	24,511,106	2.362
1932........	11,212,701	49.0	9,889,866	1,727,716	11,654,492	51.0	22,867,193	2.177
1933........	11,456,273	51.5	8,865,935	1,942,875	10,808,962	48.5	22,265,235	2.085
1934........	13,236,406	51.1	10,580,710	1,981,116	12,651,168	48.9	25,887,574	2.392
1935........	13,306,303	53.1	9,618,516	1,822,500	11,735,835	46.9	25,042,138	2.290
1936........	14,508,642	53.3	10,801,643	1,498,656	12,719,515	46.7	27,228,167	2.469
1937........	15,172,729	51.5	12,574,574	1,211,052	14,268,585	48.5	29,441,314	2.648
1938........	13,800,094	53.5	10,754,747	1,257,887	12,012,634	46.5	25,812,728	2.281
1939........	14,902,915	50.7	12,838,347	1,099,419	14,479,668	49.3	29,382,583	2.597
1940........	16,666,234	49.5	15,509,778	1,514,458	17,036,090	50.5	33,702,324	2.960
1941........	17,227,151	46.2	19,332,479	693,902	20,026,082	53.8	37,253,233	3.238
1942........	17,725,761	42.4	23,735,334	388,010	24,122,916	57.6	41,848,677	3.591
1943........	16,321,006	37.1	27,303,778	391,475	27,895,098	62.9	44,016,104	3.727
1944........	15,660,808	35.7	27,948,008	218,511	28,166,201	64.3	43,827,009	3.659
1945........	15,227,819	38.3	24,505,241	28,388	24,521,528	61.7	39,749,347	3.279
1946........	16,502,508	39.0	25,639,541	101,580	25,740,704	61.0	42,243,212	3.434
1947........	14,673,967	34.0	28,410,149	52,777	28,462,242	66.0	43,136,209	3.428
1948........	16,928,028	36.0	30,295,841	162,550	30,454,917	64.0	47,382,945	3.678
1949........	18,104,626	45.3	21,501,583	331,457	21,833,057	54.7	39,937,683	2.947

* The sum of Canadian coal mine sales, colliery consumption, coal supplied to employees and coal used in making coke, etc., less the tonnage of coal exported.

"" Includes small tonnages from Countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada, and bituminous coal ex-warehoused for ship's store.

Imports of coal and coke briquettes not included.

The following table shows the quantity of coke imported into Canada during the years 1948, 1949 and 1950 through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Province	1948		1949		1950	
	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal
Newfoundland	...	...	...	...	...	150
Nova Scotia	...	...	...	...	...	...
Quebec	2,804	11,589	1,484	4,346	...	21,236
Ontario	292,391	530,694	278,345	421,773	259,803	374,954
Manitoba	534	17,249	...	14,594	...	10,752
Saskatchewan	...	477	...	1,178	...	1,404
British Columbia	626	1,701	...	2,474	217	3,380
Alberta	...	193	...	212	...	...
Total	296,355	561,903	279,829	444,577	260,020	411,876

Imports of Coal for each year since 1919, through ports in the Province of Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Yukon

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	B.C. & Yukon	Total Canada
1919................	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920................	10,261,237	571,879	111,957	1,391,709	12,336,903	43,547	535	607	13,128	15,902,632
1921................	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,250
1922................	7,424,171	445,019	68,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923................	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924................	8,763,676	403,388	70,259	1,500,525	10,737,848	143,609	2,422	1,209	25,049	12,619,082
1925................	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926................	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,992	13,802,242
1927................	11,572,678	221,694	90,864	1,273,691	13,158,927	142,860	2,141	1,324	22,648	15,178,640
1928................	10,539,408	194,718	103,594	1,481,228	12,318,948	97,002	2,536	1,360	18,682	13,966,183
1929................	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930................	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886	13,345,308
1931................	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932................	6,867,307	62,019	48,195	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933................	7,038,386	74,934	30,108	482,206	7,625,634	13,213	1,327	998	26,077	8,427,656
1934................	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,301	10,268,945
1935................	8,032,739	6,033	53,145	591,810	8,683,727	9,918	952	1,136	3,722a	9,549,457b
1936................	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524d	10,200,253e
1937................	9,946,567	128,595	69,598	820,160	10,964,920	12,079	743	1,293	2,540g	12,241,270h
1938................	7,981,712	113,746	56,806	698,371	8,850,635	9,061	783	1,116	2,701k	9,567,3341
1939................	8,035,174	77,532	53,772	528,887	8,695,365	15,035	862	990	1,808n	9,903,613o
1940................	11,312,806	28,363	30,138	503,782	11,875,089	7,066	692	795	2,591	13,578,705x
1941................	13,910,140	29,608	26,523	765,376	14,731,647	10,021	671	1,062	1,646	17,867,068
1942................	14,397,298	292,783	51,942	1,212,815	15,954,838	21,568	773	789	1,573	20,807,005
1943................	15,524,762	152,955	262,893	2,425,150	18,365,760	90,293	732	1,002	1,611	24,393,798
1944................	15,654,562	271,617	364,674	2,195,070	18,485,923	16,255	556	935	1,236	24,513,527
1945................	14,236,472	262,266	290,856	1,320,728	16,110,322	20,397	642	1,221	1,682	21,176,811xx
1946................	14,272,178	331,674	322,295	1,946,218	16,872,365	16,265	686	1,038	1,790	22,000,398xxx
1947................	16,827,356	340,450	396,647	1,972,434	19,536,887	26,146	560	806	1,866	25,841,440xxxx
1948................	17,774,268	3,142,251*	....	....	20,916,519	78,047	485	.....	29,686	25,907,103xxxxx
1949................	11,848,120	1,385,640*	....	....	13,233,760	45,609	...	124	6,114	15,799,509
1950................	17,224,711	1,482,394*	....	....	18,707,105	32,891	250	.....	3,230	22,593,468

x Consists of 13,382,389 tons from the United States and 196,316 tons from Great Britain.
xx Consists of 21,176,805 tons from the United States and 6 tons from Great Britain.
xxx Consists of 22,000,314 tons imported from the United States and 84 tons from Great Britain.
xxxx Consists of 25,839,917 tons imported from the United States, 1,087 tons imported from Great Britain, 431 tons from Belgium and 5 tons from Alaska.
xxxxx Includes briquettes and lignite coal. *Includes Fort Frances and Fort William.

ANTHRACITE COAL

1919................	2,977,913	119,234	559	346,442	3,444,148	12,906	...	66	136	4,972,283
1920................	2,943,134	69,206	2,648	226,476	3,241,464	17,509	206	517	75	4,912,964
1921................	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,567,370
1922................	1,586,924	21,507	12	36,018	1,644,461	14,715	231	...	61	2,693,957
1923................	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	...	174	5,167,881
1924................	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	...	687	4,183,594
1925................	2,203,281	37	170	50,731	2,254,049	34,396	702	30	246	3,798,744
1926................	2,458,674	...	56	60,810	2,519,494	17,990	464	...	5,202	4,242,932
1927................	2,123,515	...	51	79,283	2,202,849	15,885	484	...	3,812	4,063,619
1928................	2,179,022	...	42	57,494	2,236,558	10,130	579	...	2,241	3,737,333
1929................	2,246,063	352	303	52,369	2,299,087	9,180	365	...	597	4,019,917
1930................	2,080,457	...	224	45,241	2,125,922	8,323	367	...	1,123	4,256,090
1931................	1,615,643	...	...	18,302	1,633,945	3,695	...	...	33	3,178,141
1932................	1,250,755	...	3	12,677	1,263,435	3,800	...	3	702	3,138,157
1933................	1,129,041	...	8	8,742	1,137,791	5,669	57	75	3,657	3,035,613
1934................	1,374,881	...	3,030	7,934	1,385,845	6,086	...	...	282	3,537,309
1935................	1,370,119	...	19	9,455	1,379,593	5,852	40	...	1,600	3,451,318e
1936................	1,436,613	...	135	16,350	1,453,098	5,884	58	...	1,151	3,530,040f
1937................	1,608,653	...	8	21,052	1,629,713	5,639	66	34	61	3,572,268j
1938................	1,697,601	...	69	16,050	1,713,720	4,674	39	...	280	3,714,001m
1939................	2,043,142	...	297	18,459	2,061,898	4,696	...	33	...	3,977,805p
1940................	2,033,585	...	...	10,571	2,044,156	4,466	34	...	236	3,964,862q
1941................	2,343,406	...	...	...	2,362,433	10,021	...	16	30	3,940,859
1942................	2,807,479	...	...	...	2,816,165	7,093	...	23	...	4,802,023
1943................	2,502,024	...	...	...	2,513,199	16,336	...	7	110	4,458,519
1944................	2,528,190	...	...	...	2,535,976	9,723	...	4	62	4,413,227
1945................	2,008,208	...	42	2,932	2,010,182	6,198	1	1	6,200	3,411,424x
1946................	2,776,497	1,977	513	13,394	2,792,381	11,718	...	...	...	4,639,347xx
1947................	2,912,629	1,831	126	9,825	2,924,411	10,797	...	11	51	4,464,007xxx
1948................	3,287,858	56,708*	...	...	3,344,566	3,197	...	...	2,116	5,142,529xxxx
1949................	2,414,784	53,753*	...	...	2,468,537	1,935	302	...	...	4,080,147
1950................	2,720,328	28,348*	...	...	2,748,676	2,500	270	...	...	4,467,111

x Consists of 3,383,042 tons imported from the United States and 28,382 from Great Britain.
xx Consists of 4,537,852 tons from the United States and 101,496 from Great Britain.
xxx Consists of 4,412,285 tons imported from the United States and 51,722 from Great Britain.
xxxx Consists of 4,966,775 tons imported from the United States and 175,754 from Great Britain.
* Includes Fort Frances and Fort William.

(a) Includes imports into the Yukon Territory of 10 tons in July and 10 in October.

(b) Consists of 9,168,428 tons imported from the United States, 380,645 tons from Great Britain, 43 tons from Alaska, 285 tons imported from Norway, 55 tons from Esthonia and 1 ton from Poland.

(c) Consists of 1,670,085 tons from United States, 1,454,521 tons from Great Britain, 205,045 tons from Germany, 67,220 tons from Belgium and 54,447 tons from French Indo-China.

(d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 in June, 45 in July, 2 in October.

(e) Consists of 10,042,127 tons imported from the United States, 149,905 tons from Great Britain, 9,421 tons from Germany, 361 tons from Norway, 124 tons from Denmark, 45 tons from Sweden, 35 tons from the Netherlands, 134 tons from Esthonia and 286 tons from Newfoundland.

(f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons from Great Britain, 359,994 tons from Germany, 33,543 tons from Belgium, 122,572 tons from French Indo-China, 16,231 tons from the Netherlands and 1,120 tons from China.

(g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in June, 45 tons in July and 2 tons in October.

(h) Consists of 12,333,378 tons imported from the United States, 56,073 tons from Great Britain, 54,061 tons from Germany, 113 tons from Norway, and 200 tons from Esthonia.

(j) Consists of 2,003,317 tons imported from United States, 1,134,855 tons from Great Britain, 258,257 tons from Germany, 8,131 tons from Belgium, 154,495 tons from Russia and 78 tons from Morocco.

(k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July, and 8 tons in October.

(l) Consists of 9,644,020 tons imported from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, and 417 tons from Japan.

(m) Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37,594 tons from the Netherlands and 30,302 tons from French Indo-China.

(n) Includes imports into the Yukon Territory of 15 tons in July and 8 tons in December.

(o) Consists of 9,836,110 tons imported from the United States, 67,483 tons from Great Britain and 20 tons from Norway.

(p) Consists of 2,605,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany and 43,537 tons from French Indo-China.

(q) Consists of 2,643,588 tons from the United States and 1,321,274 tons from Great Britain.

Imports of Coal into Ontario. Manitoba, Saskatchewan, Alberta, British Columbia, Yukon and Canada, by months during 1950.

Month	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	B.C. and Yukon	Total Canada
BITUMINOUS COAL								
January	292,138	20,762	312,900	3,301	...	...	158	405,370
February	113,424	7,880	121,304	1,552	...	...	30	143,535
March	453,655	2,669	456,324	452	...	...	182	654,404
April	1,575,860	9,730	1,585,590	1,171	...	...	59	1,926,931
May	2,132,179	188,929	2,321,108	159	27	...	...	2,732,237
June	1,913,181	173,180	2,086,361	849	21	...	...	2,494,600
July	1,954,612	166,531	2,121,143	1,478	11	...	45	2,517,170
August	2,017,726	195,710	2,213,436	2,161	191	...	...	2,677,396
September	2,074,744	269,923	2,344,667	5,793	...	...	10	2,705,509
October	2,087,812	254,379	2,342,191	3,985	...	...	1,628	2,833,432
November	1,761,841	152,652	1,914,493	3,659	...	...	1,118	2,376,612
December	847,539	40,049	887,588	8,331	...	...	...	1,126,272
Total	17,224,711	1,482,394	18,707,105	32,891	250	...	3,230	22,593,468
ANTHRACITE COAL								
January	129,749	883	130,632	385	118	...	...	213,212
February	135,492	964	136,456	231	58	...	...	203,777
March	234,043	966	235,009	63	41	...	...	365,988
April	231,204	134	231,338	15	53	...	...	310,531
May	259,745	...	259,745	113	...	...	...	471,631
June	257,519	5,568	263,087	193	...	...	...	437,123
July	214,992	777	215,769	285	...	...	...	387,654
August	228,436	8,795	237,231	312	...	...	...	367,448
September	318,799	5,223	324,022	643	...	...	...	558,957
October	283,170	3,498	286,668	219	...	...	...	465,591
November	245,531	628	246,159	41	...	...	...	416,646
December	181,648	912	182,560	...	...	...	...	268,553
Total	2,720,328	28,348	2,748,676	2,500	270	...	...	4,467,111
GRAND TOTAL IMPORTATIONS								
Bituminous	17,224,711	1,482,394	18,707,105	32,891	250	...	3,230	22,593,468
Anthracite	2,720,328	28,348	2,748,676	2,500	270	...	...	4,467,111
Total	19,945,039	1,510,742	21,455,781	35,391	520	...	3,230	27,060,579

MINERAL PRODUCTION IN ALBERTA DURING 1948 and 1949

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada

	1948		1949	
	Quantity	Value	Quantity	Value
METALLICS:				
Gold, fine ounces	78	2,730	115	4,140
Silver, fine ounces	7	5	11	8
NON-METALLICS:				
Coal, short tons	8,123,255	42,217,449	8,616,855	44,644,153
Natural gas, M. cu. ft	48,965,217	8,324,087	51,179,779	2,558,989
Quartz, tons	...	...	700	10,500
Petroleum, crude barrels	10,888,592	35,127,751	20,087,418	58,999,936
Salt, tons	34,613	449,780	28,359	547,304
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS:				
Cement, barrels	1,224,313	2,521,978	1,659,503	3,456,141
Clay products	...	2,055,738	...	1,603,199
Lime:				
Quicklime, tons	23,437	225,430	26,064	283,357
Hydrated, tons	934	9,340	1,007	12,084
Sand and gravel, tons	3,592,275	2,219,497	2,448,814	1,553,589
Stone, tons	14,298	57,444	13,632	55,025
Total	...	93,211,229	...	113,728,425

PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1950.

SUMMARY OF STATISTICS

Number of short tons of coal produced	8,118,206
Number of short tons of briquettes made	409,855
Number of short tons of coke produced	16,637
Number of short tons of shale, clay and limestone produced	654,387
Number of coal mines in operation during the year	207
Number of mines opened during the year	11
Number of mines re-opened during the year	73
Number of mines closed during the year	78
Number of mines abandoned during the year	19
Number of mines in operation at December 31st, 1950	167
Number of quarries in operation during the year	11
67 mines or 32.37% of the total operating produced .34% of the output	
51 mines or 24.64% of the total operating produced 1.55% of the output	
14 mines or 6.76% of the total operating produced 1.36% of the output	
36 mines or 17.39% of the total operating produced 10.16% of the output	
11 mines or 5.31% of the total operating produced 10.25% of the output	
10 mines or 4.83% of the total operating produced 14.93% of the output	
9 mines or 4.35% of the total operating produced 19.33% of the output	
3 mines or 1.45% of the total operating produced 9.57% of the output	
6 mines or 2.90% of the total operating produced 32.51% of the output	
Average number of persons employed below ground	4,990
Average number of persons employed above ground	1,955
Average number of persons employed at strip mining	1,054
Number of separate accidents causing loss of life	15
Number of deaths caused by accidents above ground	2
Number of deaths caused by accidents below ground	18
Number of serious accidents above ground	18
Number of serious accidents below ground	68
Number of slight accidents above ground	19
Number of slight accidents below ground	78
Total purchased electric power (Kilowatt hours)	50,418,029
Number of prosecutions instituted	24
Number of Provisional Overman's Certificates issued during 1950	62
Number of Provisional Electrician's Certificates issued during 1950	5
Number of Provisional Foreman's Certificates issued during 1950	92
Number of Provisional Blaster's Certificates (strip mine) issued during '50	8
Number of Provisional Blaster's Certificates (quarries) issued during 1950	17
Number of Provisional Miner's Certificates issued during 1950	83
Number of Miner's Permits issued during 1950	497
Number of Miner's Certificates issued during 1950	296
Number of Miner's Duplicate Certificates issued during 1950	52
Number of First Class Certificates issued during 1950	6
Number of Second Class Certificates issued during 1950	6
Number of Third Class Certificates issued during 1950	28
Number of Mine Surveyor's Certificates issued during 1950	6
Number of First Class Mine Electrician's Certificates issued during 1950	8
Number of Second Class Mine Electrician's Certificates issued during 1950	5
Number of Strip Mine Manager's Certificates issued during 1950	13
Number of Foreman's Certificates issued during 1950	16
Number of Blaster's Certificates (Strip Mine) issued during 1950	1
Number of First Class Certificates issued up to December 31st, 1950	301
Number of Second Class Certificates issued up to December 31st, 1950	606
Number of Third Class Certificates issued up to December 31st, 1950	1,786
Number of Mine Surveyor's Certificates issued up to December 31st, 1950	226
Number of First Class Mine Electrician's Certificates issued to Dec. 31, 1950	150
Number of Second Class Mine Electrician's Certificates issued to Dec. 31/50	23
Number of Strip Mine Manager's Certificates issued up to Dec. 31, 1950	130
Number of Strip Mine Foreman's Certificates issued up to Dec. 31, 1950	130
Number of Blaster's Certificates (Strip Mine) issued up to Dec. 31st, 1950	38
Number of Miner's Certificates issued up to December 31, 1950	19,801

PARTICULARS OF WORK DONE IN QUARRIES IN THE PROVINCE DURING 1950

Number of short tons of shale, clay and limestone produced		654,387
Number of short tons of shale imported from Saskatchewan		6,376
Number of short tons of shale used making bricks		115,101
Number of short tons of shale used making hollow tile		27,616
Number of short tons of shale used making rock wool insulation		4,327
Number of short tons of limestone used making cement		444,410
Number of short tons of limestone used in making lime		38,309
Number of short tons of limestone used making rock dust		31,000
Total number of shifts worked		183,226
Total number of men employed		515
Number of pounds of explosives used		118,163
Total number of shots fired		56,902
Total number of miss-shots		50
Total number of bricks made		35,657,921
Total number of bricks put to stock		1,825,956
Total number of bricks lifted from stock		324,742
Bricks sold for use in: Alberta	18,246,371	
Saskatchewan	7,015,007	
British Columbia	5,110,291	
Manitoba	3,669,538	
Ontario	115,500	
Total	34,156,707	
Number of tons of hollow tile made		25,325
Number of tons of hollow tile put to stock		294
Number of tons of hollow tile lifted from stock		726
Number of tons of hollow tile sold		25,757

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta, & Sask.)	Output in tons for Alberta
1901	346,649	....
1902	510,674	....
1903	622,939	....
1904	782,931	....
1905	....	811,228
1906	....	1,385,000
1907	....	1,834,745
1908	....	1,845,000
1909	....	2,174,329
1910	....	3,036,757
1911	....	1,694,564
1912	....	3,446,349
1913	....	4,306,346
1914	....	3,821,739
1915	....	3,434,891
1916	....	4,648,604
1917	....	4,863,414
1918	....	6,148,620
1919	....	5,022,412
1920	....	6,908,923
1921	....	5,937,195
1922	....	5,976,432
1923	....	6,866,923
1924	....	5,203,713
1925	....	5,883,394
1926	....	6,508,908
1927	....	6,936,780
1928	....	7,334,179
1929	....	7,147,250
1930	....	5,755,911
1931	....	4,563,309
1932	....	4,867,984
1933	....	4,714,784
1934	....	4,748,848
1935	....	5,462,973
1936	....	5,696,375
1937	....	5,551,682
1938	....	5,230,015
1939	....	5,518,105
1940	....	6,205,088
1941	....	6,970,064
1942	....	7,754,279
1943	....	7,677,982
1944	....	7,427,433
1945	....	7,801,248
1946	....	8,824,455
1947	....	8,074,596
1948	....	8,111,013
1949	....	8,616,983
1950	....	8,118,206

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 to 1950 INCLUSIVE:

Year	Domestic	Domestic and Bituminous	Sub-Bituminous	Bituminous	Anthracite	Coal used in coke Production	Briquettes	Coke
1901...........	....	331,907	....	....	14,742	....	....	....
1902...........	....	494,087	....	....	16,587	....	....	....
1903...........	....	617,754	....	....	5,185	....	....	....
1904...........	....	759,568	....	....	23,363	....	....	....
1905...........	....	972,686	....	....	43,653	71,292	....	46,640
1906...........	602,780	....	....	546,623	235,597	103,930	....	69,844
1907...........	639,335	....	....	939,295	256,115	112,887	49,585	73,782
1908...........	584,334	....	....	1,011,571	249,095	128,397	36,261	75,657
1909...........	763,673	....	....	1,197,399	213,257	148,104	89,785	87,812
1910...........	878,011	....	....	1,896,961	261,785	196,249	108,996	121,578
1911...........	964,700	....	....	649,745	80,119	61,591	48,200	35,984
1912...........	1,341,389	....	....	1,926,371	178,589	170,818	90,000	105,684
1913...........	1,763,225	....	....	2,374,401	168,720	104,012	130,861	65,167
1914...........	1,697,401	....	....	1,953,367	170,971	44,249	109,082	29,058
1915...........	1,682,922	....	....	1,626,237	125,732	38,878	83,180	23,826
1916...........	2,172,801	....	....	2,335,259	140,544	67,105	107,959	41,950
1917...........	2,537,829	....	....	2,206,868	118,717	51,905	93,818	31,630
1918...........	3,035,061	....	....	2,982,334	131,225	53,462	100,470	32,858
1919...........	2,611,009	....	....	2,325,787	85,616	....	70,033	....
1920...........	3,359,309	....	....	3,419,021	130,594	....	101,693	....
1921...........	2,943,141	....	....	2,897,380	96,674	....	62,466	....
1922...........	3,086,669	....	635,073	2,214,273	40,417	....	33,663	....
1923...........	3,161,741	....	463,461	3,241,614	107	....	39,638	....
1924...........	3,096,660	....	591,946	1,515,107	....	....	....	....
1925...........	3,156,359	....	581,835	2,145,200	....	....	791	....
1926...........	3,160,029	....	490,371	2,858,508	....	....	11,381	....
1927...........	3,357,171	....	595,190	2,984,419	....	287	20,649	173
1928...........	3,378,200	....	740,498	3,215,481	....	....	24,768	....
1929...........	3,385,749	....	668,108	3,093,393	....	....	28,167	....
1930...........	2,874,090	....	603,331	2,278,490	....	....	24,111	....
1931...........	2,245,563	....	471,389	1,846,357	....	....	15,102	....
1932...........	2,574,785	....	559,479	1,733,720	....	4,591	13,582	2,183
1933...........	2,434,047	....	554,141	1,726,596	....	75,275	14,935	49,279
1934...........	2,295,566	....	537,542	1,915,740	....	91,745	15,906	59,703
1935...........	2,647,912	....	566,436	2,248,625	....	98,233	18,812	63.428

1936..........	2,841,231	....	566,486	2,288,658	....	97,353	21,015	65,349
1937..........	2,631,150	....	506,529	2,414,003	....	99,537	27,044	65,967
1938..........	2,453,263	....	488,912	2,287,850	....	103,498	39,239	68,692
1939..........	2,449,199	....	512,105	2,556,801	....	103,191	48,510	68,913
1940..........	2,537,205	....	598,686	3,069,197	....	105,926	66,127	70,753
1941..........	2,713,254	....	585,453	3,671,357	....	105,390	126,188	70,354
1942..........	3,213,113	....	733,547	3,807,619	....	107,410	197,905	71,572
1943..........	3,416,037	....	791,952	3,469,993	....	101,132	222,106	67,348
1944..........	3,146,801	....	729,427	3,551,205	....	101,633	253,592	67,821
1945..........	....	....	3,200,485	4,600,763	....	64,280	250,274	43,180
1946..........	....	....	3,434,859	5,389,596	....	64,878	275,646	43,206
1947..........	....	....	3,237,220	4,837,376	....	81,128	282,898	52,627
1948..........	....	....	3,190,217	4,920,796	....	78,795	321,574	45,718
1949..........	....	....	3,121,656	5,495,327	....	91,361	460,643	54,922
1950..........	....	....	3,325,186	4,793,020	....	23,079	409,855	16,637

1901 to 1905 includes outputs from Alberta and Saskatchewan. Previous to 1922 sub-bituminous coal was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.
During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.
During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six months and one-half.

Total Output of Coal disposed of during 1950

Areas	Sold for Consumption in:									Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	China	Quebec	United States	Sold to Railroad Companies										
Bituminous	355142	174341	562591	229887	195589	...	...	100235	2308365	3926150	120569	1069	387640	23079	294280	347652	293399	14020	4793020
S.Bituminous	1317377	1192382	310967	357033	116974	...	...	5530	...	3300263	9052	10	...	...	20847	12864	16110	1740	3325186
Total	1672519	1366723	873558	586920	312563	...	...	105765	2308365	7226413	129621	1079	387640	23079	315127	360516	309509	15760	8118206
Briquettes	14551	12221	40036	66369	63085	...	...	1547	212660	410469	...	...	...	...	3822	...	4436	...	409855
Coke	1671	129	13951	291	37	...	...	558	...	16637	...	...	...	...	...	...	...	...	16637

How the total Output of BITUMINOUS COAL from the Province was disposed of by areas during 1950

Areas:	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	China	United States	Sold to Railroad Companies										
Group 1:																		
Cascade	18930	3300	10824	9568	44455	...	784	100397	188258	20656	512	135720	...	10067	2682	11131	425	346339
Nordegg	141	...	...	...	...	...	...	25720	25861	3909	...	124939	...	670	...	1107	...	154272
Group 2:																		
Crowsnest	93092	13335	184509	36271	33660	...	75423	1278658	1714948	17737	180	28819	23079	263829	257655	251961	10627	2043659
Mtn. Park	5662	942	11367	85009	29202	...	1787	675167	809136	31644	...	98162	...	13092	56811	23210	2968	982667
Group 3:																		
Coalspur	28061	15246	314006	57453	61711	...	20385	228423	725285	38493	377	...	...	2716	29833	1747	...	794957
Halcourt	288	...	...	...	...	...	...	...	288	9	...	...	...	...	...	...	...	297
Lethbridge	195965	121109	40210	26516	17949	...	1856	...	403605	2715	...	...	...	2718	571	3107	...	406502
Morley	302	...	...	...	...	...	...	...	302	...	...	...	...	...	...	...	...	302
Pekisko	3096	...	...	...	...	...	...	...	3096	...	...	...	...	...	...	...	...	3096
Pincher	634	...	...	...	...	...	...	...	634	...	...	...	...	...	100	...	...	734
Pr. Creek	267	...	...	...	...	...	...	...	267	...	...	...	...	30	...	...	...	297
Saunders	8704	20409	1675	15070	8612	...	...	...	54470	5406	...	...	...	1158	...	1136	...	59898
Total	355142	174341	562591	229887	195589	...	100235	2308365	3926150	120569	1069	387640	23079	294280	347652	293399	14020	4793020

How the total Output of SUB-BITUMINOUS COAL from the Province was disposed of by areas during 1950

Areas:	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States								
Group 4:														
Ardley	32941	229	287	99	...	...	33556	...	...	...	1201	...	...	34757
Big Valley	13605	10338	1919	2462	230	37	28591	355	...	3754	1015	226	...	33489
Brooks	29561	27276	9729	9835	9627	341	86369	...	...	...	...	...	...	86369
Carbon	50191	4403	3976	7883	227	249	66929	612	...	6	1023	...	41	68529
Champion	6279	...	...	...	...	...	6279	...	...	8	85	...	...	6372
Drumheller	302567	884840	180924	211175	52990	561	1633057	5237	...	10703	84	12657	...	1636424
Edmonton	436860	18576	8514	18593	9363	...	491906	1807	10	4756	248	3091	...	495636
Gleichen	15896	...	...	...	...	...	15896	...	...	...	...	...	...	15896
Milk River	733	...	...	...	...	...	733	...	...	...	...	...	...	733
Pembina	122003	21988	30528	10266	10630	85	195500	420	...	647	1334	...	...	197901
Taber	27147	34064	36406	26798	10963	...	135378	...	...	666	223	...	...	136267
Wetaskiwin	1459	...	...	...	...	...	1459	...	...	...	...	...	...	1459
Whitecourt	840	...	...	...	...	...	840	...	...	...	10	...	...	850
Group 5:									...					
Camrose	46417	20896	16697	6718	4850	134	95712	26	...	52	311	...	...	96101
Castor	95425	57844	11238	34973	11130	4123	214733	140	...	111	3240	...	...	218224
Pakowki	494	...	...	...	...	...	494	...	...	...	...	...	...	494
Redcliff	10124	2956	41	841	158	...	14120	...	...	...	...	...	...	14120
Rochester	221	...	...	...	...	...	221	5	...	...	35	...	...	261
Sheerness	33951	27062	173	...	40	...	61226	...	...	...	3392	...	1699	62919
Slave	88	...	...	...	...	...	88	...	...	...	...	...	...	88
Tofield	78314	81910	10535	27390	6766	...	204915	450	...	120	270	...	...	205755
Westlook	12261	...	...	...	...	...	12261	...	...	24	393	136	...	12542
Total:	1317377	1192382	310967	357033	116974	5530	3300263	9052	10	20847	12864	16110	1740	3325186

How the total output of COAL from the Province was disposed of by months during 1950

Months	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta.	Saskatchewan	British Columbia	Manitoba	Ontario	China	United States	Sold to Railroad Companies										
January	260967	151916	82451	74148	20606	...	5173	96795	692056	14999	91	25089	4499	35564	18363	25085	4419	761157
February	176922	148469	88865	64391	32355	...	23618	146445	681065	13052	73	33015	6029	34851	26625	27541	114	767055
March	120302	101903	83608	44854	44920	...	13272	308812	717671	13623	101	50732	5499	39378	40958	42641	...	825321
April	66537	58042	63375	21721	9938	...	4923	218082	442618	12029	90	39645	3639	36254	33454	45011	2834	519884
May	68183	75104	65792	25425	13582	...	5769	229424	483279	11287	97	45560	49	35994	37411	36629	843	576205
June	61838	85232	52405	29335	18738	...	4813	198620	450981	9404	136	33707	293	37273	31763	35832	368	527357
July	54933	55852	44888	27562	24837	...	2457	193349	403878	7248	58	21666	133	24429	29183	30937	1541	454117
August-	86578	78023	53282	28378	25080	...	5747	160143	437231	8480	87	23116	556	20966	23054	20766	3692	489032
September	120233	116488	71396	47685	30437	...	6089	170293	562621	8161	90	25611	...	12098	23545	14904	1340	615882
October	180817	137616	95685	62626	27461	...	5382	184375	693962	8427	89	30805	...	13384	28519	10329	609	764248
November	262384	173520	76751	76821	31097	...	23646	191500	835719	11633	101	28118	1106	13978	31664	6621	.....	915698
December	212825	184558	95060	83974	33512	...	4876	210527	825332	11278	66	30576	1276	10958	35977	13213	.....	902250
Total	1672519	1366723	873558	586920	312563	...	105765	2308365	7226413	129621	1079	387640	23079	315127	360516	309509	15760	8118206
% of Total Sales	23.14	18.91	12.08	8.12	4.35	...	1.46	31.94										

How the total output of BITUMINOUS COAL was disposed of by months during 1950

Months	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	China	United States	Sold to Railroad Companies										
January	45719	16963	42240	27044	9771	...	5067	96795	243599	13741	81	25089	4499	34410	16625	22579	4397	311068
February	33886	18474	49906	22666	15398	...	18946	146445	305721	11584	73	33015	6029	33133	25106	26481	108	388072
March	24562	12914	65855	22922	25888	...	12649	308812	473602	12715	101	50732	5499	37588	39931	41971	...	578197
April	16890	7292	51209	11486	8128	...	4886	218082	317973	11552	90	39645	3639	35495	33118	41806	2346	397360
May	17799	8936	50329	12282	11741	...	5769	229424	336280	10773	97	45560	49	34648	37197	35512	...	429092
June	22892	12638	39215	11802	16995	...	4813	198620	306975	9016	136	33707	293	35273	31650	34758	...	382292
July	18784	10908	35129	15685	22575	...	2457	193349	298887	6920	58	21666	133	23927	29093	30289	1533	348862
August	31378	11604	35832	12949	19608	...	5747	160143	277261	7975	87	23116	556	19391	22724	20300	3692	327118
September	41734	15546	40918	19056	18911	...	6089	170293	312547	7632	90	25611	...	10391	22637	13222	1335	364351
October	33638	17069	57265	24566	14533	...	5290	184375	336736	7873	89	30805	...	9587	27158	8784	609	402855
November	37553	21408	37509	23933	16854	...	23646	191500	352403	10715	101	28118	1106	10489	29182	6076	...	426038
December	30307	20589	57184	25496	15187	...	4876	210527	364166	10073	66	30576	1276	9948	33231	11621	...	437715
Total	355142	174341	562591	229887	195589	...	100235	2308365	3926150	120569	1069	387640	23079	294280	347652	293399	14020	4793020
% of Total Sales	9.05	4.44		5.86	4.98	...	2.55	58.79										

How the total output of SUB-BITUMINOUS COAL was disposed of by months during 1950

Months	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States								
January	215248	134953	40211	47104	10835	106	448457	1258	10	1154	1738	2506	22	450089
February	143036	129995	38959	41725	16957	4672	375344	1468	...	1718	1519	1060	6	378983
March	95740	88989	17753	21932	19032	623	244069	908	...	1790	1027	670	...	247124
April	49647	50750	12166	10235	1810	37	124645	477	...	759	336	3205	488	122524
May	50384	66168	15463	13143	1841	...	146999	514	...	1346	214	1117	843	147113
June	38946	72594	13190	17533	1743	...	144006	388	...	2000	113	1074	368	145065
July	36149	44944	9759	11877	2262	...	104991	328	...	502	90	648	8	105255
August	55200	66419	17450	15429	5472	...	159970	505	...	1575	330	466	...	161914
September	78499	100942	30478	28629	11526	...	250074	529	...	1707	908	1682	5	251531
October	147179	120547	38420	38060	12928	92	357226	554	...	3797	1361	1545	...	361393
November	224831	152112	39242	52888	14243	...	483316	918	...	3489	2482	545	...	489660
December	182518	163969	37876	58478	18325	...	461166	1205	...	1010	2746	1592	...	464535
Total:	1317377	1192382	310967	357033	116974	5530	3300263	9052	10	20847	12864	16110	1740	3325186
% of Total Sales	39.92	36.13	9.42	10.82	3.54	.17								

Amount of COAL sold during the years 1915 to 1950 (inclusive) for consumption in:

Year	Alberta	B.C.	Saskatchewan	Manitoba	Ontario	N.W.T.	Quebec	U.S.A.	To Railroads	Alaska	Total
1915.........	2,129,130	54,860	695,898	64,816	...	...	...	25,047	...	...	2,969,751
1916.........	2,866,670	86,413	1,007,765	97,265	...	...	...	61,092	...	...	4,119,205
1917.........	2,813,413	76,397	1,139,771	249,872	...	...	...	93,081	...	...	4,372,534
1918.........	3,440,154	101,189	1,372,439	511,168	629	...	...	133,276	...	...	5,558,855
1919.........	2,991,110	95,461	1,115,329	314,290	308	...	...	121,212	...	...	4,637,710
1920.........	1,647,202	128,850	1,310,146	600,962	13,911	...	30	153,610	2,516,555	...	6,371,266
1921.........	1,415,861	116,089	1,294,441	495,388	9,898	...	...	133,823	2,023,204	...	5,488,704
1922.........	1,443,942	107,920	1,371,249	520,518	21,573	...	102	105,514	2,076,291	...	5,647,109
1923.........	1,382,788	108,326	1,223,454	533,639	52,334	...	...	83,557	3,110,121	...	6,514,219
1924.........	1,431,327	114,186	1,189,788	510,407	16,525	...	...	39,142	1,613,574	...	4,914,949
1925.........	1,440,032	117,037	1,297,653	509,655	28,831	...	...	40,507	2,139,716	...	5,573,431
1926.........	1,325,290	127,858	1,296,181	591,267	74,559	...	221	48,216	2,706,440	...	6,170,032
1927.........	1,508,089	187,028	1,427,904	612,542	22,680	...	...	45,160	2,759,765	...	6,563,168
1928.........	1,409,475	262,198	1,511,141	605,125	44,265	...	...	52,265	3,054,239	...	6,938,708
1929.........	1,446,555	236,840	1,455,213	588,647	55,335	...	33	51,625	2,923,827	...	6,758,075
1930.........	1,234,382	227,385	1,221,542	541,537	29,784	...	32	44,291	2,120,237	...	5,419,190
1931.........	1,020,694	171,610	905,574	442,761	27,036	...	100	30,434	1,668,451	...	4,266,660
1932.........	1,134,311	136,188	1,097,382	497,006	20,583	...	135	27,366	1,619,921	...	4,532,892
1933.........	1,123,357	120,911	1,052,910	449,681	39,437	...	32	18,449	1,500,061	...	4,304,838
1934.........	1,087,898	127,638	986,639	391,132	55,947	31	...	13,739	1,687,850	...	4,350,874
1935.........	1,246,959	221,758	1,120,816	435,813	64,659	...	...	24,712	1,960,555	...	5,075,272
1936.........	1,356,690	244,928	1,238,730	450,740	65,886	...	...	27,397	1,969,569	...	5,353,940
1937.........	1,326,054	269,023	1,085,812	437,954	62,521	82	...	41,328	2,028,389	...	5,251,163
1938.........	1,278,932	238,435	1,011,207	413,663	74,111	83	...	32,507	1,871,852	...	4,920,790
1939.........	1,241,618	239,227	1,044,367	409,046	90,206	...	...	33,139	2,109,684	...	5,167,287
1940.........	1,311,644	237,642	1,019,035	354,857	133,587	14	...	35,354	2,720,793	...	5,812,926
1941.........	1,335,606	304,928	1,052,913	430,663	234,606	...	...	32,742	3,090,290	...	6,481,748
1942.........	1,474,795	652,222	1,259,669	580,336	231,258	...	...	98,197	2,864,586	...	7,171,063
1943.........	1,560,212	864,911	1,455,612	627,368	1,190	...	...	414,627	2,098,535	...	7,071,753
1944.........	1,424,293	678,960	1,225,075	533,027	10,163	...	...	266,664	2,583,101	1,064	6,742,643
1945.........	1,567,940	868,396	1,242,001	541,882	278,814	...	...	162,698	2,416,803	...	7,098,928
1946.........	1,608,296	982,413	1,449,002	658,733	348,137	...	...	137,271	2,893,207	...	8,136,694
1947.........	1,671,130	899,403	1,475,006	583,414	162,898	...	...	91,235	2,504,604	...	7,433,989
1948.........	1,593,629	945,700	1,413,283	625,009	202,520	...	58	84,492	2,312,273	...	7,377,914
1949.........	1,614,306	891,132	1,232,890	629,456	187,976	...	...	45,972	3,012,425	...	7,617,632
1950.........	1,672,519	873,558	1,366,723	586,920	312,563	...	...	105,765	2,308,365	...	7,226,413

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta. Included in the above totals are 49,298 tons for Ships Bunkers in 1943, 20,296 in 1944, 20,394 in 1945, 21,770 in 1946, and 4,107 in 1947. The above also includes 37,865 tons shipped to China in 1946 and 27,731 in 1947, also 14,461 tons sent to Japan in 1947, and 200,947 tons in 1948, and 3,475 tons to China in 1949.

Coal produced by years from 1946 to 1950:

BITUMINOUS COAL FIELD

Areas	1946	1947	1948	1949	1950
Group 1:					
Cascade	313,608	280,769	338,399	304,743	346,339
Highwood	...	...	....	2,958	...
Nordegg	333,368	343,720	319,418	338,280	154,272
Group 2:					
Crowsnest	2,256,741	1,967,880	1,917,462	2,465,426	2,043,659
Mountain Park	1,109,465	954,949	1,105,467	1,128,903	982,667
Group 3:					
Coalspur	832,987	754,775	782,206	810,675	794,957
Halcourt	1,662	1,017	654	282	297
Lethbridge	469,618	462,322	395,654	384,431	406,502
Morley	1,238	1,738	915	140	302
Pekisko	1,885	3,389	4,200	7,057	3,096
Pincher	488	681	726	870	734
Prairie Creek	...	655	853	321	297
Saunders	68,146	65,342	54,482	50,961	59,898
No Area	390	139	360	280	...
Total	5,389,596	4,837,376	4,920,796	5,495,327	4,793,020

SUB-BITUMINOUS COAL FIELD

Areas	1946	1947	1948	1949	1950
Group 4:					
Ardley	12,228	15,368	23,871	18,565	34,757
Big Valley	10,106	14,230	18,344	27,550	33,489
Brooks	130,604	134,643	135,826	119,815	86,369
Carbon	78,149	70,159	67,117	56,962	68,529
Champion	7,348	8,296	6,397	5,950	6,372
Drumheller	1,946,170	1,857,416	1,678,352	1,608,598	1,636,424
Edmonton	478,900	493,133	438,912	473,767	495,636
Gleichen	16,676	14,940	14,368	13,201	15,896
Milk River	1,084	1,605	1,661	1,302	733
Pembina	60,106	95,468	112,859	180,382	197,901
Taber	289,849	128,376	121,461	137,629	136,267
Wetaskiwin	1,389	1,385	1,653	1,411	1,459
Whitecourt	79	231	...	459	850
Group 5:					
Camrose	90,766	83,512	102,917	76,223	96,101
Castor	71,166	72,058	106,445	127,397	218,224
High Prairie	...	...	...	...	...
Pakowki	123	16	...	448	494
Redcliff	8,427	8,603	12,460	11,518	14,120
Rochester	5,949	5,748	...	520	261
Sheerness	56,193	54,194	56,646	56,684	62,919
Slave	...	...	180	75	88
Tofield	168,640	177,120	281,329	193,503	205,755
Westlock	907	719	9,419	9,697	12,542
Total	3,434,859	3,237,220	3,190,217	3,121,656	3,325,186

Total output of BITUMINOUS COAL by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	15516	15591	34872	25771	33542	32700	20844	28044	31324	36446	38702	32987	346339
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	22442	23751	35335	28765	31698	12281	...	...	...	...	....	...	154272
Group 2:													
Crowsnest	87789	125447	251663	189141	202183	182460	161772	140019	158248	165190	173585	206162	2043659
Mtn. Park	75863	102314	132986	70958	75042	58072	78582	71784	75270	82859	76845	82092	982667
Group 3:													
Coalspur	59138	71295	85385	63194	63649	64049	59099	48325	57981	74126	79471	69245	794957
Halcourt	32	28	46	...	11	...	...	...	23	52	59	46	297
Lethbridge	43012	42095	33622	18898	21006	28296	25393	34301	34917	37156	48739	39067	406502
Morley	...	302	...	...	...	...	...	...	...	...	...	...	302
Pekisko	590	270	75	25	125	118	...	276	278	320	478	541	3096
Pincher	72	95	60	25	27	25	60	80	90	140	50	10	734
Pr. Creek	76	108	...	...	...	...	...	...	...	18	24	71	297
Saunders	6538	6776	4153	583	1809	4291	3112	4289	6220	6548	8085	7494	59898
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL	311068	388072	578197	397360	429092	382292	348862	327118	364351	402855	426038	437715	4793020

Total output of SUB-BITUMINOUS COAL by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	5406	3495	1168	199	243	116	199	325	1270	4766	10032	7538	34757
Big Valley	6191	4051	961	251	142	43	46	1726	4273	5279	6401	4125	33489
Brooks	16792	12448	1388	...	...	...	3214	3450	13483	9454	15201	10939	86369
Carbon	12573	11521	2826	2117	1014	428	1421	2844	3872	8355	11497	10061	68529
Champion	735	675	280	245	126	220	191	430	503	1008	1017	942	6372
Drumheller	170866	168900	149029	82254	111047	121445	78401	114586	145193	159992	169072	165639	1636424
Edmonton	86489	62097	37595	15058	16664	11620	8063	14261	23778	57750	81405	80856	495636
Gleichen	2525	1988	900	418	295	377	315	977	1270	1756	2925	2150	15896
Milk River	31	41	28	21	20	9	29	42	151	143	140	78	733
Pembina	24950	20100	18585	11305	12416	6599	9598	7891	11945	20735	27395	26382	197901
Taber	16873	13879	799	236	10	234	...	1940	20108	26497	25634	30057	136267
Wetaskiwin	323	221	134	12	...	...	...	20	46	174	327	202	1459
Whitecourt	276	76	...	...	...	...	...	...	...	...	287	211	850
Group 5:													
Camrose	22106	13771	4441	1121	613	801	460	1862	4256	13131	19724	13815	96101
Castor	37847	31470	9359	677	570	604	910	1104	4443	10432	56467	64341	218224
Pakowki	49	20	6	5	...	...	16	56	64	82	131	65	494
Redcliff	1408	...	...	...	71	125	293	7076	815	660	2046	1626	14120
Rochester	219	18	24	...	...	...	...	...	...	...	...	...	261
Sheerness	3455	6672	8538	2930	1773	978	688	1961	5000	10523	11968	8433	62919
Slave	59	29	...	...	...	...	...	...	...	...	...	...	88
Tofield	37990	26184	10480	5650	2098	1463	1411	1363	10937	29077	44295	34807	205755
Westlock	2926	1327	583	25	11	3	...	...	124	1579	3696	2268	12542
TOTAL	450089	378983	247124	122524	147113	145065	105255	161914	251531	361393	489660	464535	3325186

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	4454	3603	12123	9383	10101	9688	5430	7779	10052	9788	9586	8410	100397
Nordegg	4878	5638	6190	3648	3883	1483	...	...	...	...	...	...	25720
Group 2:													
Crowsnest	35449	51901	160411	120678	139477	123536	118013	86401	91244	97486	112086	141976	1278658
Mtn. Park	40964	66708	103972	62368	52961	40845	48934	50543	49085	55092	51630	52065	675167
Group 3:													
Coalspur	11050	18595	26116	22005	23002	23068	20972	15420	19912	22009	18198	8076	228423
Total:	96795	146445	308812	218082	229424	198620	193349	160143	170293	184375	191500	210527	2308365

Total Amount of Bituminous Coal disposed of by area during each month for consumption in Alberta;
MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1;													
Cascade	...	...	26	15	5	10	...	35	...	32	102	98	323
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	89	27	9	1	7	8	...	...	...	...	...	...	141
Group 2:													
Crowsnest	3425	2037	949	780	826	655	658	1067	8524	3250	2877	1867	26915
Mtn. Park	469	160	225	146	146	99	87	116	185	242	268	185	2328
Group 3:													
Coalspur	245	294	186	82	76	108	76	58	65	77	305	195	1767
Halcourt	...	20	...	...	...	...	...	...	...	...	...	...	20
Lethbridge	1322	1017	552	275	255	270	270	566	841	1028	1476	1106	8978
Morley	...	302	...	...	...	...	...	...	...	...	...	...	302
Pekisko	590	270	75	25	125	118	...	276	278	320	478	541	3096
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	18	...	...	...	...	...	...	...	12	24	71	125
Saunders	20	19	17	7	1	...	...	...	...	...	...	...	64
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	6160	4164	2039	1331	1441	1268	1091	2118	9893	4961	5530	4063	44059

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	381	343	182	88	25	26	51	127	49	200	374	216	2062
Group 2:													
Crowsnest	616	371	334	272	160	92	135	75	392	767	642	446	4302
Mtn. Park	255	304	83	199	118	71	...	59	116	124	72	64	1465
Group 3:													
Coalspur	2740	2005	1136	642	450	856	1120	679	1432	1625	2224	1833	16742
Halcourt	24	7	35	...	5	...	...	...	23	36	49	27	206
Lethbridge	8274	6385	3556	1809	2608	2771	2123	5660	5271	6467	7878	5664	58466
Pincher	56	70	44	18	18	20	53	65	76	118	35	8	581
Pr. Creek	56	39	...	...	...	...	...	...	...	6	...	...	101
Saunders	508	194	111	41	18	265	343	260	226	279	554	470	3269
Total:	12910	9718	5481	3069	3402	4101	3825	6925	7585	9622	11828	8728	87194

NUT COAL

500·2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	28	6	28	11	29	24	15	18	26	109	38	47	379
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	2077	1637	1244	1184	961	839	558	743	511	670	899	1258	12581
Mtn. Park	...	...	44	...	...	...	...	8	...	...	...	...	52
Group 3:													
Coalspur	381	256	166	45	284	376	103	97	183	156	235	204	2486
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	3048	2555	2337	1508	1677	2147	1654	3322	3045	2949	3879	2316	30437
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	7	22	...	...	...	...	...	...	...	...	...	...	29
Saunders	585	176	281	10	174	47	184	145	274	384	411	203	2874
No. Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	6126	4652	4100	2758	3125	3433	2514	4333	4039	4268	5462	4028	48838

PREPARED STOKER

500 2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	638	374	322	210	222	239	127	260	270	380	426	635	4103
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	77	28	52	18	34	134	237	40	357	967	357	149	2450
Mtn. Park	378	625	384	172	168	54	...	...	4	16	10	6	1817
Group 3:													
Coalspur	995	725	482	281	227	113	182	369	637	1067	906	1061	7045
Halcourt	5	...	10	...	6	...	...	...	...	16	8	17	62
Lethbridge	1321	1540	987	320	512	754	880	1119	1032	1077	1477	906	11925
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	....	...	...	...	...	...	...	...	...	...	...	...
Pincher	6	10	6	2	4	...	...	7	4	8	6	...	53
Pr. Creek	7	5	...	...	...	...	...	...	...	...	...	...	12
Saunders	...	199	211	64	72	186	128	113	234	239	212	325	1983
No Area	...-	...	...	...	...	...	...	...	...	...	...	...	...
Total:	3427	3506	2454	1067	1245	1480	1554	1908	2538	3770	3402	3099	29450

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	....	...
Nordegg	...	...	...	...	...	...	....	...	...	...	...	...	...
Group 2:													
Crowsnest	2205	108	792	2728	1934	3717	2386	6774	8309	68	...	...	29021
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	89	63	53	27	42	38	40	52	46	52	44	44	590
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	31	...	31
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	2294	171	845	2755	1976	3755	2426	6826	8355	120	75	44	29642

SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	348	...	1308	1443	1605	1459	688	1374	280	952	1274	1332	12063
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	....	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	5213	2473	974	283	575	569	580	349	1749	2561	976	1521	17823
Mtn. Park	...	...	...	...	...	...	...	...	....	...	...	...	...
Group 3:													
Coalspur	8	....	...	...	...	...	...	...	...	1	12	...	21
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	9233	9202	7118	4184	4430	6827	5964	7545	7207	7376	8992	7491	85569
Morley	....	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	....	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	243	...	...	...	142	...	88	7	2	1	483
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	14802	11675	9643	5910	6610	8855	7374	9268	9324	10897	11256	10345	115959

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in ALBERTA:
MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	3019	1299	350	31	32	...	19	44	721	2030	3118	2446	13109
Big Valley	62	141	128	3	...	13	19	13	30	285	423	754	1871
Brooks	2864	1482	563	...	...	...	635	880	2864	4904	5191	2470	21853
Carbon	1488	694	87	118	29	31	106	132	456	1363	2788	1503	8795
Champion	...	...	...	...	5	...	...	...	...	...	...	...	5
Drumheller	1226	1051	377	148	57	126	150	918	1067	613	1452	971	8156
Edmonton	12248	9572	10423	5528	5998	3780	2668	2433	2850	6653	8424	5966	76543
Gleichen	1194	837	385	216	156	214	291	695	768	828	855	892	7331
Milk River	31	41	28	21	20	9	29	42	151	143	140	78	733
Pembina	1241	296	330	...	...	2	...	11	90	65	316	167	2518
Taber	...	...	...	...	10	...	...	20	179	10	387	...	606
Wetaskiwin	264	182	117	12	...	...	...	15	36	132	274	170	1202
Whitecourt	276	76	...	...	...	...	...	...	...	...	287	201	840
Group 5:													
Camrose	599	196	124	...	...	33	12	22	58	105	1124	129	2402
Castor	4534	2208	821	361	153	121	62	507	1110	1950	3858	3268	18953
Pakowki	49	20	6	5	...	...	16	56	64	82	131	65	494
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	179	18	24	...	...	...	...	...	...	...	...	...	221
Sheerness	687	1214	341	476	489	336	218	152	288	921	1463	903	7488
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	1742	1325	1837	751	760	678	633	498	739	1054	1290	1111	12418
Westlock	794	463	179	12	5	2	...	...	35	401	892	444	3227
Total:	32497	21115	16120	7682	7714	5345	4858	6438	11506	21539	32413	21538	188765

LUMP COAL

500·2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	1712	1274	405	51	22	12	66	102	250	1892	4147	3201	13134
Big Valley	2101	852	488	115	67	28	27	218	1119	1218	2150	853	9236
Brooks	1306	502	86	...	...	...	41	199	290	279	469	444	3616
Carbon	4269	3363	818	296	257	193	192	771	1077	2457	3377	2436	19506
Champion	534	474	179	182	90	159	144	322	365	764	766	713	4692
Drumheller	20432	16645	10727	5687	7494	6603	5767	7622	12507	15494	17935	16177	143090
Edmonton	31025	17589	7407	2771	3066	2090	1143	4434	8692	22791	31563	30786	163357
Gleichen	889	873	368	172	125	151	21	253	440	719	1399	892	6302
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	4933	3099	2380	627	943	763	1150	1153	1592	3827	6033	4623	31123
Taber	2234	951	319	155	...	160	....	375	946	1856	2760	1042	10798
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	....	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	5553	2713	1019	217	99	438	11	80	659	3507	6113	3283	23692
Castor	11077	5728	2262	25	83	149	471	561	2040	4333	15172	11682	53583
Pakowki	....	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	71	80	293	7076	640	585	1143	236	10124
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	1737	1115	994	127	52	20	...	283	1421	4301	5361	2656	18067
Slave	59	29	...	...	...	...	...	...	...	...	...	...	88
Tofield	10958	5189	2160	648	221	163	226	325	1584	8355	17902	10202	57933
Westlock	1376	485	229	11	6	...	...	...	34	677	1866	1178	5862
Total:	100195	60881	29841	11084	12596	11009	9552	23774	33656	73055	118156	90404	574203

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	239	389	187	61	85	38	43	79	160	518	1349	850	3998
Big Valley	153	175	70	47	28	2	...	15	30	145	199	484	1348
Brooks	171	153	40	...	...	...	40	...	157	36	80	127	804
Carbon	1292	969	500	291	183	73	155	409	561	949	1110	805	7297
Champion	96	77	31	32	28	47	34	93	107	172	166	149	1032
Drumheller	3785	3058	2323	1454	1928	1306	954	1502	2108	2419	3392	3005	27234
Edmonton	11648	8012	6454	2016	1487	923	1106	1791	2731	8131	12302	10161	66762
Gleichen	295	154	102	5	1	...	...	...	8	56	308	181	1110
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	2183	1232	930	483	481	388	360	408	661	1365	2857	1749	13097
Taber	1257	859	127	51	...	50	...	146	1140	1769	1927	1011	8337
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	1261	798	646	253	198	74	98	249	627	1500	2773	1146	9623
Castor	1401	956	729	10	127	...	1	6	149	888	3590	1986	9843
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	319	383	742	272	188	104	86	211	351	964	1187	813	5620
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	535	331	113	23	128	5	1	39	152	338	725	519	2909
Westlock	483	209	117	2	...	...	...	...	36	313	598	347	2105
Total:	25118	17755	13111	5000	4862	3010	2878	4948	8978	19563	32563	23333	161119

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	180	136	197	46	89	56	61	82	103	210	784	570	2514
Big Valley	195	179	90	39	7	...	...	30	51	144	134	120	989
Brooks	39	115	...	...	...	...	40	...	39	...	...	...	233
Carbon	1044	764	240	144	161	61	144	406	401	900	1164	1007	6436
Champion	71	91	51	22	...	...	...	2	10	24	35	41	347
Drumheller	3284	2409	1348	843	650	395	658	576	1743	2292	2577	2039	18814
Edmonton	7544	4982	2428	1013	858	566	195	808	2229	4401	5183	6085	36292
Gleichen	145	123	45	23	13	12	3	29	53	113	288	132	979
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	1706	774	651	214	167	128	33	573	880	1304	1607	1466	9503
Taber	713	466	...	...	...	...	...	5	259	439	366	247	2495
Wetaskiwin	59	39	17	...	...	...	...	5	10	42	53	32	257
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	1347	861	681	256	143	126	162	199	369	958	1379	870	7351
Castor	1976	1108	910	17	145	70	5	10	238	794	1835	1582	8690
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	298	585	154	57	52	...	78	226	221	457	470	2598
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	309	148	128	3	...	1	12	10	164	237	467	249	1728
Westlock	146	76	57	...	...	51	...	...	43	94	162	124	753
Total	18758	12569	7428	2774	2290	1518	1313	2813	6818	12173	16491	15034	99979

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	68	22	12	...	...	...	...	...	...	16	29	21	168
Big Valley	...	...	124	...	...	...	...	...	...	...	...	...	124
Brooks	...	...	...	...	...	...	...	44	...	...	...	...	44
Carbon	125	268	517	160	178	14	91	143	120	311	70	42	2039
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	792	903	1947	806	847	1054	1550	1318	1187	1798	669	853	13724
Edmonton	4134	3617	3774	92	3468	462	330	69	259	621	1141	1281	19248
Gleichen	...	...	...	...	...	...	...	...	1	40	41	49	131
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	18	...	...	...	...	61	55	29	52	248	72	179	714
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	52	100	400	1146	...	...	...	...	...	40	...	106	1844
Westlock	45	4	...	...	...	...	...	...	...	2	8	48	107
Total:	5234	4914	6774	2204	4493	1591	2026	1603	1619	3076	2030	2579	38143

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	10	...	...	...	...	...	...	...	...	8	...	18
Big Valley	...	14	...	...	...	...	...	...	...	...	20	3	37
Brooks	1062	762	42	...	...	...	288	173	608	36	...	40	3011
Carbon	1051	746	237	151	193	54	174	222	314	780	1204	992	6118
Champion	21	23	12	9	1	8	9	10	13	35	35	27	203
Drumheller	10052	8106	7031	6263	6322	7449	5808	7626	7077	6114	9585	10116	91549
Edmonton	13048	9758	4775	4407	2070	3931	2371	3955	4479	7391	7882	10591	74658
Gleichen	2	1	...	2	...	...	....	...	...	...	34	4	43
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	4530	5112	9638	8665	9841	4766	6794	3581	3407	2715	2579	3420	65048
Taber	495	216	3	...	...	...	...	54	21	514	914	2694	4911
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	....	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	1650	669	347	130	2	...	...	3	3	84	320	141	3349
Castor	1510	345	23	239	...	264	76	...	...	27	356	1516	4356
Pakowki	...	...	...	...	...	...	...	...	...	...	....	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	59	110	9	178
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	5	...	333	1037	...	...	2	...	...	2	101	2	1482
Westlock	20	40	25	...	...	1	...	...	...	16	30	75	207
Total:	33446	25802	22466	20903	18429	16473	15522	15624	15922	17773	23178	29630	255168

Total amount of Bituminous Coal disposed of by areas during each month for consumption in SASKATCHEWAN
MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	44	...	...	...	...	...	...	...	...	...	44
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	601	956	98	...	...	...	193	191	503	406	502	371	3821
Mtn. Park	43	48	45	...	44	...	...	...	...	...	48	...	228
Group 3:													
Coalspur	...	....	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	....	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	644	1004	187	...	44	...	193	191	503	406	550	371	4093

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	46	...	...	...	...	...	42	86	43	72	289
Group 2:													
Crowsnest	885	785	280	185	176	135	221	477	531	482	352	896	5405
Group 3:													
Coalspur	869	731	511	40	123	445	634	192	372	762	821	1437	6937
Lethbridge	7755	7769	6614	4114	5272	6336	6014	6231	6945	7831	9641	7833	82355
Saunders	986	1086	471	41	322	588	427	696	1007	943	1303	1026	8896
Total	10495	10371	7922	4380	5893	7504	7296	7596	8897	10104	12160	11264	103882

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	1	...	...	...	...	60	...	...	61
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	346	282	48	46	92	233	143	165	180	88	45	478	2146
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	325	88	43	85	...	...	43	88	...	...	40	129	841
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	2972	3305	2373	1577	1600	2821	2143	1995	2504	3104	4382	3279	32055
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	533	485	182	34	36	348	341	470	532	475	720	742	4898
No.Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	4176	4160	2646	1742	1729	3402	2670	2718	3216	3727	5187	4628	40001

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	285	259	222	135	133	177	218	354	312	402	253	2750
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	40	84	181	177	...	...	...	43	84	254	123	171	1157
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	626	984	950	167	406	279	306	205	1078	892	684	891	7468
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	410	302	217	176	218	388	176	196	609	482	644	567	4385
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	175	...	...	84	119	...	81	269	233	387	256	1604
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	1076	1830	1607	742	843	919	659	743	2394	2173	2240	2138	17364

NUT SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	95	...	...	...	412	...	...	92	...	45	45	689
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	....
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	41	...	36	39	84	139	116	455
No Area	...	...	...	...	....	...	...	...	...	...	...	...	...
Total:	...	95	...	...	...	453	...	36	131	84	184	161	1144

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	36	...	...	...	...	...	...	...	120	...	156
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	117	117
Mtn. Park	...	...	...	...	...	...	...	...	...	...	151	563	714
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	88	303	351	363	273	...	...	...	...	89	243	604	2314
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	484	711	165	65	154	360	90	320	405	486	573	743	4556
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	572	1014	552	428	427	360	90	320	405	575	1087	2027	7857

MINE RUN

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in SASKATCHEWAN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	...	...	...	...	...	...	...	...	...	...	...	...	...
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	267	186	121	41	176	128	41	86	...	62	203	171	1482
Edmonton	900	2242	200	...	...	...	85	...	175	311	1000	1100	6013
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	....	...	...	...
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	...
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	189	551	...	...	...	...	210	...	...	250	558	891	2649
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	347	529	352	490	...	...	81	123	81	...	43	...	2046
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	570	860	951	291	129	169	169	80	154	1230	934	1130	6667
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	2273	4368	1624	822	305	297	586	289	410	1853	2738	3292	18857

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	181	...	...	...	...	...	...	...	...	...	48	...	229
Big Valley	2411	1631	...	...	...	...	...	692	929	620	1319	829	8431
Brooks	4018	3419	81	...	...	...	885	555	3605	2207	3672	4086	22528
Carbon	533	645	...	...	...	...	368	328	409	47	285	576	3191
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	48415	52499	47079	28149	39275	45295	26423	39911	48383	53591	53578	52243	534841
Edmonton	1306	721	39	41	...	...	...	...	175	1314	3327	3959	10882
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	1307	894	424	83	...	42	...	101	673	2274	4259	3144	13201
Taber	1437	917	178	...	...	...	...	...	2096	4476	3978	7009	20091
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	3698	2167	121	46	...	...	...	947	1411	2085	2720	2793	15988
Castor	6916	3600	84	...	...	...	...	...	61	617	14125	19430	44833
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	987	...	...	...	...	45	...	...	175	75	533	1071	2886
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	224	1218	2396	328	466	82	82	250	840	1441	1208	1713	10248
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	10317	7046	971	641	44	185	261	255	3222	8802	11619	10956	54319
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	81750	74757	51373	29288	39785	45649	28019	43039	61979	77549	100671	107809	741668

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	41	53	...	...	...	...	...	45	272	41	87	...	539
Brooks	386	301	38	...	...	...	78	123	501	34	267	377	2105
Carbon	46	46	...	...	...	...	...	...	...	95	49	48	284
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	9263	9086	8034	5279	5796	5753	4879	5553	7088	8699	9459	9804	88693
Edmonton	44	...	...	...	...	...	...	...	...	133	567	811	1555
Gleichen	...	...	...	...	...	....	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	406	545	263	39	...	...	...	43	85	455	438	482	2756
Taber	308	142	...	...	...	...	...	...	770	1263	941	727	4151
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...-	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	359	132	...	...	...	...	...	45	45	168	516	337	1602
Castor	133	166	...	...	...	...	...	...	...	...	1291	1270	2860
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	70	...	...	...	...	...	...	...	...	...	...	...	70
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	594	800	209	126	116	42	207	552	497	419	284	3846
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	1275	714	720	425	352	102	...	...	544	1546	1434	1400	8512
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	12331	11779	9855	5952	6274	5971	4999	6016	9857	12931	15468	15540	116973

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	86	142	55	42	...	...	...	228	364	275	131	45	1368
Brooks	294	75	36	...	....	...	37	...	250	...	...	...	692
Carbon	...	...	...	...	...	...	...	...	...	...	49	...	49
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	8447	8622	6871	3220	3266	3104	2524	4390	8428	9233	7477	8111	73693
Edmonton	...	...	...	...	...	...	...	...	...	....	...	42	42
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	553	541	232	86	45	39	...	170	419	724	667	475	3951
Taber	365	370	...	...	...	...	...	...	549	216	226	340	2066
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	881	1073	180	91	84	45	...	...	168	250	249	160	3181
Castor	569	1083	44	...	...	...	...	...	...	52	1291	1195	4234
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	....
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	717	1463	644	240	198	118	485	915	1249	1022	806	7857
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	2712	2227	147	95	45	48	47	...	537	774	752	1255	8639
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	13907	14850	9028	4178	3680	3434	2726	5273	11630	12773	11864	12429	105772

NUT SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	612	667	...	...	...	...	...	88	...	...	...	...	1367
Carbon	...	...	...	879	...	...	...	...	...	...	...	...	879
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	6184	5358	2936	1906	3189	2895	1849	2572	2284	3337	3521	5775	41806
Edmonton	...	...	...	...	...	...	...	...	...	...	...	84	84
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	...	...	...	...	533	...	...	...	...	...	46	...	579
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	...	...	87	...	...	...	...	...	...	236	...	186	509
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	6796	6025	3023	2785	3722	2895	1849	2660	2284	3573	3567	6045	45224

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	....	...	...
Brooks	459	125	...	...	...	...	...	...	...	...	...	...	584
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	15521	15983	13294	6894	11375	13980	6616	9009	12847	9828	14498	14480	144325
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	475	468	96	41	43	...	149	...	...	...	145	84	1501
Taber	238	...	86	...	...	...	...	133	1620	1731	1923	2025	7756
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	41	43	...	...	...	...	...	...	...	41	...	...	125
Castor	213	842	...	...	...	...	...	...	...	28	562	1623	3268
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	488	843	368	...	...	...	240	484	642	3065
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	949	755	610	302	141	...	...	...	315	....	192	...	3264
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	17896	18216	14086	7725	12402	14348	6765	9142	14782	11868	17804	18854	163888

Total amount of Bituminous Coal disposed of by areas during each month for consumption in BRITISH COLUMBIA:
MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	194	547	308	175	235	337	214	274	326	441	442	347	3840
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	....	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	96	49	...	49	...	...	...	...	173	46	...	39	452
Mtn. Park	105	655	48	...	...	...	...	...	...	49	47	...	904
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	....
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	395	1251	356	224	235	337	214	274	499	536	489	386	5196

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	70	...	...	...	...	...	...	...	...	...	44	...	114
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	1153	2096	806	809	497	481	448	500	1161	2067	923	826	11767
Mtn. Park	222	86	167	...	...	...	...	...	61	156	88	...	780
Group 3:													
Coalspur	10976	12775	16384	13194	12384	10840	9058	8656	8677	15701	6876	18368	143889
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	2359	2714	1889	1658	1976	1847	1539	2488	2906	2082	2632	2433	26523
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	124	75	374	...	...	83	109	124	79	83	126	85	1262
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	14904	17746	19620	15661	14857	13251	11154	11768	12884	20089	10689	21712	184335

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	43	40	92	21	46	...	66	...	73	43	88	512
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	482	1029	285	241	348	358	280	679	1285	850	908	899	7644
Mtn. Park	...	269	...	...	87	...	...	...	...	...	...	...	356
Group 3:													
Coalspur	2649	2187	2835	2774	2141	577	715	747	1217	3029	1031	1668	21570
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	1086	1106	876	520	719	324	675	1073	957	811	993	995	10135
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	43	35	...	...	...	43	...	...	38	...	...	159
No.Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	4217	4677	4071	3627	3316	1305	1713	2565	3459	4801	2975	3650	40376

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	261	479	596	324	673	387	89-	314	585	1040	942	627	6317
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	381	343	628	700	1065	863	787	209	1415	2458	2047	2025	12921
Mtn. Park	1558	1226	361	442	785	322	...	...	53	147	170	386	5450
Group 3:													
Coalspur	8121	10393	10670	6712	6199	5019	4830	4095	4573	8134	2976	9068	80790
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	174	169	295	129	211	215	215	170	303	511	588	572	3552
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	69	...	...	...	...	...	...	...	...	75	144
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	10495	12610	12619	8307	8933	6806	5921	4788	6929	12290	6723	12753	109174

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	1762	822	1421	1505	1488	799	923	872	843	1047	1011	1364	13857
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	....	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	....	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	72	...	...	...	38	...	...	...	...	...	110
No Area	...	...	...	....	...	...	...	...	...	...	...	...	...
Total:	1762	822	1493	1505	1488	799	961	872	843	1047	1011	1364	13967

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	41	...	...	...	...	...	...	...	...	...	41
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	7315	8377	20105	14175	14294	11636	10557	11712	9492	9564	9787	10854	137868
Mtn. Park	...	...	...	574	250	...	...	48	...	...	...	3005	3877
Group 3:													
Coalspur	3152	4423	7550	7136	6956	5081	4609	3805	6812	8938	5835	3460	67757
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	10467	12800	27696	21885	21500	16717	15166	15565	16304	18502	15622	17319	209543

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in BRITISH COLUMBIA:
MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	121	211	87	88	86	43	81	129	126	42	119	121	1254
Pembina	...	453	...	...	...	...	...	...	...	...	...	...	453
Group 5:													
Castor	91	198	...	...	...	...	...	...	...	...	...	...	289
Total:	212	862	87	88	86	43	81	129	126	42	119	121	1996
					LUMP COAL								
Group 4:													
Ardley	...	189	...	...	...	...	...	...	...	...	49	...	238
Big Valley	188	430	47	...	...	...	...	...	...	134	801	184	1784
Brooks	1753	858	...	...	...	...	441	256	1217	827	1268	1020	7640
Carbon	474	1039	...	45	...	...	...	48	92	286	160	379	2523
Drumheller	12146	11357	11274	8001	10628	9955	5389	10711	12485	12815	13281	11665	129707
Edmonton	987	1252	171	117	...	...	...	245	710	833	1302	1418	7035
Pembina	2741	1619	276	134	87	47	43	47	734	1913	2297	2490	12428
Taber	3662	3421	...	...	...	...	...	467	2913	3408	2873	2718	19462
Group 5:													
Camrose	2631	1455	331	41	42	41	...	123	408	1249	1249	1328	8898
Castor	1541	1191	...	...	...	...	...	...	45	47	2907	2577	8308
Redcliff	...	...	...	...	...	...	...	...	...	...	41	...	41
Sheerness	...	86	87	...	...	...	...	...	...	...	...	...	173
Tofield	1804	1637	63	37	...	...	...	...	420	600	889	935	6385
Total:	27927	24534	12249	8375	10757	10043	5873	11897	19024	22112	27117	24714	204622

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	434	78	...	...	...	...	56	125	79	...	75	99	946
Carbon	232	274	...	...	...	...	...	...	...	140	97	50	793
Drumheller	1716	2053	2061	1146	2568	1527	783	1253	2079	2275	1855	1794	21110
Edmonton	308	231	...	...	...	...	...	...	69	26	185	247	1066
Pembina	660	732	118	159	80	78	83	196	597	969	732	765	5169
Taber	1684	1822	...	...	...	...	...	367	2307	2611	1497	1496	11784
Group 5:													
Camrose	2198	1270	135	85	45	...	45	49	130	790	964	537	6248
Castor	...	128	...	...	...	...	...	...	...	...	390	40	558
Tofield	286	414	69	46	43	...	...	...	83	71	42	48	1102
Total:	7518	7002	2383	1436	2736	1605	967	1990	5344	6882	5837	5076	48776

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	49	...	...	....	...	...	...	...	...	...	...	49
Big Valley	...	135	...	...	...	...	...	...	...	...	...	...	135
Brooks	255	73	...	...	...	...	188	119	429	...	...	79	1143
Carbon	91	185	...	...	...	...	...	...	46	96	99	143	660
Drumheller	1589	1652	1924	1516	1547	1082	1181	1500	2556	2499	2450	2259	21755
Edmonton	41	43	41	...	...	...	...	...	...	88	71	129	413
Pembina	1104	977	214	172	116	118	178	374	495	1063	784	1358	6953
Taber	275	779	...	...	...	...	...	85	797	967	710	606	4219
Group 5:													
Camrose	225	395	92	...	...	41	86	95	133	200	118	166	1551
Castor	...	333	...	...	...	...	...	...	...	...	363	618	1314
Tofield	171	388	116	47	47	...	...	45	248	409	390	465	2326
Total:	3751	5009	2387	1735	1710	1241	1633	2218	4704	5322	4985	5823	40518

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	43	...	...	84	124	258	440	118	418	214	715	838	3252
Pembina	594	635	572	396	...	...	327	730	503	326	444	523	5050
Taber	...	47	...	...	...	...	...	...	...	...	...	...	47
Group 5:													
Tofield	...	...	...	...	...	...	...	...	...	96	...	...	96
Total:	637	682	572	480	124	258	767	848	921	636	1159	1361	8445

SLACK COAL

Group 4:													
Drumheller	...	10	...	...	...	...	42	368	...	3426	...	...	3846
Pembina	...	42	...	...	...	...	396	...	...	...	25	12	475
Taber	123	628	...	...	...	...	...	...	143	...	...	...	894
Group 5:													
Castor	...	...	...	...	...	...	...	...	...	...	...	769	769
Tofield	43-	190	75	52	50	...	...	...	216	...	...	...	626
Total:	166	870	75	52	50	...	438	368	359	3426	25	781	6610

Total amount of Bituminous Coal disposed of by areas during each month for consumption in MANITOBA

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	44	164	110	60	...	68	...	...	149	157	70	148	970
Group 2:													
Crowsnest	192	169	76	97	...	...	...	...	268	590	497	139	2028
Mtn. Park	677	802	815	218	466	952	1441	1499	1646	910	781	1340	11547
Total:	913	1135	1001	375	466	1020	1441	1499	2063	1657	1348	1627	14545

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	45	...	159	43	...	...	...	45	43	142	87	56	620
Group 2:													
Crowsnest	1008	1148	751	230	762	180	636	760	757	942	678	1356	9208
Mtn. Park	139	228	57	...	...	...	239	...	116	...	...	58	837
Group 3:													
Coalspur	4512	3940	3873	1740	1877	3542	4119	1891	3130	4045	5167	7489	45325
Lethbridge	1367	1981	2008	757	840	1729	2282	2189	1141	1425	3044	2477	21240
Saunders	1194	1117	1100	81	513	802	687	945	1363	1143	1091	1374	11410
Total:	8265	8414	7948	2851	3992	6253	7963	5830	6550	7697	10067	12810	88640

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	43	...	...	...	45	...	...	115	973	306	273	1755
Group 2:													
Crowsnest	282	560	289	366	369	137	92	252	1270	1664	2034	1272	8587
Mtn. Park	...	92	...	...	...	...	...	...	...	...	...	...	92
Group 3:													
Coalspur	216	256	352	170	127	208	307	83	42	260	134	160	2315
Lethbridge	595	301	423	128	296	590	594	420	339	428	648	386	5148
Saunders	424	188	71	...	...	40	36	218	107	128	315	108	1635
Total:	1517	1440	1135	664	792	1020	1029	973	1873	3453	3437	2199	19532
PREPARED STOKER													
Group 1:													
Cascade	134	172	562	967	564	308	134	231	457	1167	955	572	6223
Group 2:													
Crowsnest	...	215	1496	1088	836	655	737	621	1941	1158	696	2518	11961
Mtn. Park	3638	2666	1716	702	1244	183	171	529	535	239	408	406	12437
Group 3:													
Coalspur	856	1127	1218	42	250	612	83	100	865	1243	2083	1334	9813
Lethbridge	...	42	44	...	...	...	...	...	42	...	...	...	128
Saunders	...	161	...	...	...	...	...	...	40	38	19	77	335
Total:	4628	4383	5036	2799	2894	1758	1125	1481	3880	3845	4161	4907	40897

NUT SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	349	226	49	49	47	...	...	...	288	415	323	156	1902
Mtn. Park	4774	2341	1146	...	...	...	1584	552	...	2806	1194	1519	15916
Group 3:													
Saunders	...	157	...	...	...	78	...	39	...	86	118	...	478
Total:	5123	2724	1195	49	47	78	1584	591	288	3307	1635	1675	18296

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	...	42	49	...	...	...	...	...	484	882	1128	...	2585
Mtn. Park	6335	4356	6428	4748	4015	1588	2452	2530	3781	3633	2076	2238	44180
Group 3:													
Saunders	263	172	130	...	76	85	91	45	137	92	81	40	1212
Total:	6598	4570	6607	4748	4091	1673	2543	2575	4402	4607	3285	2278	47977

Total amount of Sub-Bituminous coal disposed of by areas during each month for consumption in MANITOBA

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	...	34	...	...	...	...	...	...	...	...	...	...	34
Group 5:													
Castor	134	178	...	...	...	...	80	...	101	234	525	647	1899
Total:	134	212	...	...	...	...	80	...	101	234	525	647	1933

LUMP COAL

Group 4:													
Ardley	...	55	...	...	...	...	...	...	...	...	...	...	55
Big Valley	324	49	...	...	...	...	...	...	44	872	627	457	2373
Brooks	1710	2262	218	...	...	...	327	249	1293	640	1786	658	9143
Carbon	1657	2132	169	...	...	...	132	311	336	539	528	1585	7389
Drumheller	21023	20222	17509	9078	11705	15754	9972	11627	15543	16357	18422	16200	183412
Edmonton	2269	1795	43	...	...	...	...	167	549	2270	3744	4762	15599
Pembina	1042	447	...	...	...	86	...	88	362	941	1044	1783	5793
Taber	2419	1792	37	...	...	...	...	167	2989	3469	3459	6106	20438
Group 5:													
Camrose	937	932	122	...	...	...	...	...	77	746	815	1296	4925
Castor	4955	3405	438	...	...	...	...	...	336	734	7636	11301	28805
Redcliff	351	...	...	...	...	...	...	...	...	...	249	241	841
Tofield	4948	3073	607	43	...	42	...	20	1618	3025	5266	3881	22523
Total:	41635	36164	19143	9121	11705	15882	10431	12629	23147	29593	43576	48270	301296

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Big Valley	...	...	...	...	...	...	...	...	...	42	...	...	42
Brooks	54	117	...	...	...	...	...	...	...	37	165	...	373
Carbon	...	...	38	...	...	...	41	40	...	47	98	230	494
Drumheller	1983	1657	1285	641	902	1413	929	1642	1710	2240	1721	2583	18706
Edmonton	...	125	...	...	...	...	...	...	...	899	1231	647	2902
Pembina	127	125	...	43	...	...	...	175	44	203	84	133	934
Taber	487	391	...	...	...	...	...	...	1118	1339	939	1187	5461
Group 5:													
Camrose	228	...	...	...	...	...	...	...	...	283	339	294	1144
Castor	445	320	328	...	...	...	...	...	85	163	693	1328	3362
Tofield	96	490	...	...	...	...	...	21	177	210	257	263	1514
Total:	3420	3225	1651	684	902	1413	970	1878	3134	5463	5527	6665	34932

PREPARED STOKER

Group 4:													
Ardley	...	44	...	...	...	...	...	...	...	...	...	...	44
Big Valley	...	...	...	...	...	...	...	...	...	...	...	47	47
Brooks	49	36	75	...	...	...	40	42	77	...	...	...	319
Drumheller	487	448	375	352	368	193	321	616	515	834	983	887	6379
Edmonton	...	...	...	...	...	...	...	...	...	...	92	...	92
Pembina	486	740	263	78	40	...	...	139	537	628	299	329	3539
Taber	...	...	...	...	...	...	...	...	249	170	115	291	825
Group 5:													
Camrose	41	39	...	...	...	...	...	...	...	43	287	239	649
Castor	145	143	...	...	...	...	...	...	...	...	176	275	739
Tofield	188	380	187	...	88	45	...	...	86	527	956	198	2655
Total:	1396	1830	900	430	496	238	361	797	1464	2202	2908	2266	15288

NUT SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	138	140	94	...	40	...	...	125	696	244	295	512	2284
Group 5:													
Tofield	...	...	...	...	...	...	35	...	...	51	...	44	130
Total:	138	140	94	...	40	...	35	125	696	295	295	556	2414

SLACK COAL

Group 4:													
Drumheller	...	...	...	...	...	...	...	....	87	273	...	...	360
Taber	...	...	...	...	...	...	...	...	...	...	...	74	74
Group 5:													
Castor	168	...	...	...	...	...	...	...	...	...	...	...	168
Tofield	213	154	144	...	...	...	...	...	...	...	57	...	568
Total:	381	154	144	...	...	...	...	...	87	273	57	74	1170

Total amount of Bituminous Coal disposed of by areas during each month for consumption in ONTARIO

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	61	...	...	...	...	...	...	...	...	127	...	...	188
Mtn. Park	...	...	...	...	...	...	...	...	...	380	...	...	380
Total:	61	...	...	...	...	...	...	...	...	507	...	...	568

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	595	1050	1523	880	1601	978	1424	1283	1542	1916	2045	1598	16435
Group 2:													
Crowsnest	387	782	2702	460	179	...	43	470	153	159	88	282	5705
Mtn. Park	45	...	...	...	...	...	...	...	57	...	...	...	102
Group 3:													
Coalspur	3731	4536	3177	535	615	1276	1066	2245	2079	1333	2015	1585	24193
Lethbridge	1194	1316	2060	472	348	647	703	823	933	916	1122	1111	11645
Saunders	613	1010	179	37	194	579	291	485	810	1185	1100	978	7461
Total:	6565	8694	9641	2384	2937	3480	3527	5306	5574	5509	6370	5554	65541

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	330	610	1165	591	1554	1893	1521	1486	1686	842	1983	1275	14936
Group 2:													
Crowsnest	152	1295	4553	...	...	92	824	1620	2159	2165	906	2486	16252
Group 3:													
Coalspur	517	1593	1414	88	216	2320	1703	1445	1444	256	1616	1557	14169
Lethbridge	942	707	1315	301	84	129	203	292	350	330	356	907	5916
Saunders	82	163	37	...	38	157	...	...	131	111	109	243	1071
Total:	2023	4368	8484	980	1892	4591	4251	4843	5770	3704	4970	6468	52344

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	81	182	316	377	1609	1071	1013	788	1194	1188	1058	267	9144
Group 2: Crowsnest	...	...	...	...	...	...	...	...	...	...	42	...	42
Mtn. Park	125	135	393	98	...	...	...	...	...	...	...	...	751
Group 3:													
Coalspur	228	838	2560	1697	2336	4165	4460	2812	1098	174	915	1293	22576
Lethbridge	69	...	166	68	...	...	...	...	...	42	...	43	388
Saunders	...	...	...	...	...	...	...	...	...	...	...	41	41
Total:	503	1155	3435	2240	3945	5236	5473	3600	2292	1404	2015	1644	32942

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	140	122	634	2437	853	357	4337	990	354	415	369	465	11473
Mtn. Park	...	...	137	...	2023	622	4702	302	1407	...	...	...	9193
Total:	140	122	771	2437	2876	979	9039	1292	1761	415	369	465	20666

SLACK COAL

Group 1:													
Cascade	...	...	3515	...	...	...	216	209	...	...	...	...	3940
Group 2:													
Mtn. Park	479	1059	...	...	...	2638	...	4316	3228	2909	3091	1056	18776
Group 3:													
Coalspur	...	...	42	87	91	71	69	42	286	85	...	...	773
Saundors	...	...	...	...	...	...	...	...	...	...	39	...	39
Total:	479	1059	3557	87	91	2709	285	4567	3514	2994	3130	1056	23528

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Ontario:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	...	...	...	...	...	...	...	...	...	...	...	12	12
Total:	...	...	...	...	...	...	...	...	...	...	...	12	12
					LUMP COAL								
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	93	45	49	187
Brooks	1063	913	171	...	...	...	118	556	1817	454	1981	1370	8443
Carbon	42	89	...	...	...	...	...	...	...	47	49	...	227
Drumheller	3604	4755	5398	1131	1359	1285	1460	3339	3978	4624	3211	4242	38386
Edmonton	932	1565	1450	...	...	43	135	292	661	217	1020	2248	8563
Pembina	360	821	842	45	...	...	...	...	602	1246	1411	1850	7177
Taber	306	183	...	...	...	...	...	60	249	457	1244	971	3470
Group 5:													
Camrose	266	826	493	...	...	...	45	48	164	822	505	793	3962
Castor	1151	3488	1254	...	...	...	...	...	140	47	486	935	7501
Redcliff	...	...	...	...	...	...	...	...	...	...	80	78	158
Tofield	667	547	588	38	...	...	...	45	570	1334	902	1537	6228
Total:	8391	13187	10196	1214	1359	1328	1758	4340	8181	9341	10934	14073	84302

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	161	157	38	...	...	...	...	...	217	...	247	169	989
Drumheller	574	711	1937	437	395	290	463	713	912	676	479	747	8334
Edmonton	134	...	46	...	...	...	...	...	...	140	111	162	593
Pembina	...	...	51	...	...	...	...	...	40	229	215	527	1062
Taber	571	576	...	...	...	...	...	61	1712	1713	1286	1474	7393
Group 5:													
Camrose	131	41	129	...	...	...	...	...	...	206	125	211	843
Castor	188	838	170	...	...	...	...	...	...	...	42	...	1238
Tofield	...	10	10	...	...	...	...	...	20	15	33	46	134
Total:	1759	2333	2381	437	395	290	463	774	2901	2979	2538	3336	20586

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Big Valley	...	...	43	...	...	...	...	...	...	...	...	...	43
Brooks	39	75	...	...	...	...	...	41	40	...	...	...	195
Drumheller	370	470	1597	159	...	84	...	120	39	37	67	...	2943
Edmonton	...	...	207	...	...	...	...	...	...	...	...	...	207
Pembina	135	326	1240	...	...	41	...	43	142	210	131	123	2391
Taber	58	...	...	...	...	...	...	...	...	42	...	...	100
Group 5:													
Camrose	...	45	...	...	...	...	...	...	...	...	...	...	45
Castor	...	70	1998	...	...	...	...	...	...	...	41	43	2152
Sheerness	...	...	40	...	...	...	...	...	...	...	...	...	40
Tofield	...	60	51	...	...	...	...	...	43	...	37	124	315
Total:	602	1046	5176	159	...	125	...	204	264	289	276	290	8431

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	83	345	1043	...	41	...	41	154	180	319	495	614	3315
Group 5:													
Castor	...	...	193	...	...	...	...	...	...	...	...	...	193
Total:	83	345	1236	...	41	...	41	154	180	319	495	614	3508

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 5:													
Castor	...	...	...	...	46	...	...	...	...	...	...	...	46
Tofield	...	46	43	...	...	...	...	...	...	...	...	...	89
Total	...	46	43	...	46	...	...	...	...	...	...	...	135

Total amount of Bituminous Coal disposed of by areas during each month for consumption in United States:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	...	1403	460	...	78	...	...	75	45	...	...	48	2109
Total:	...	1403	460	...	78	...	...	75	45	...	...	48	2109

LUMP COAL

Group 2:													
Crowsnest	209	1278	239	...	...	...	...	89	151	199	116	280	2561
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	12423	...	12423
Lethbridge	248	388	181	...	...	...	42	139	104	...	93	45	1240
Total:	457	1666	420	...	...	...	42	228	255	199	12632	325	16224

NUT COAL

Group 2:													
Crowsnest	2285	5392	4928	1885	722	207	41	1145	1385	2485	1537	2597	24609
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	1246	...	1246
Lethbridge	...	266	...	...	...	...	...	50	52	...	...	...	368
Total:	2285	5658	4928	1885	722	207	41	1195	1437	2485	2783	2597	26223

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	124	...	...	310	101	37	...	...	...	...	572
Group 2:													
Crowsnest	132	591	658	731	...	663	576	1134	926	926	335	875	7547
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	6473	...	6473
Lethbridge	...	43	43	...	...	...	...	59	...	...	45	...	190
Total:	132	634	825	731	...	973	677	1230	926	926	6853	875	14782
NUT-SLACK													
Group 2:													
Crowsnest	148	4354	1956	...	...	98	233	492	652	60	42	90	8125
Total:	148	4354	1956	...	...	98	233	492	652	60	42	90	8125

SLACK COAL

Group 1:													
Cascade	...	...	97	...	77	...	...	38	...	...	...	...	212
Group 2:													
Crowsnest	2045	5231	2118	2270	4892	3535	1464	2489	2774	1620	1093	941	30472
Mtn. Park	...	...	1787	...	...	...	...	...	...	...	...	...	1787
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	243	...	243
Lethbridge	...	...	58	...	...	...	...	...	...	...	...	...	58
Total:	2045	5231	4060	2270	4969	3535	1464	2527	2774	1620	1336	941	32772

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in United States:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 5:													
Castor	...	4123	...	...	...	...	...	...	...	...	...	...	4123
Total:	...	4123	...	...	...	...	...	...	...	...	...	...	4123
LUMP													
Group 4:													
Carbon	...	...	...	...	...	...	...	...	...	48	...	...	48
Group 5:													
Camrose	...	46	...	...	...	...	...	...	...	...	...	...	46
Total:	...	46	...	...	...	...	...	...	...	48	...	...	94
NUT													
Group 4:													
Carbon	...	...	201	...	...	...	...	...	...	...	...	...	201
Drumheller	...	42	43	...	...	...	...	...	...	...	...	...	85
Total:	...	42	244	...	...	...	...	...	...	...	...	...	286

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	63	278	...	...	...	...	...	...	...	...	...	...	341
Drumheller	...	97	179	...	...	...	...	...	...	...	...	...	276
Group 4:													
Pembina	43	42	...	...	...	...	...	...	...	...	...	...	85
Group 5:													
Camrose	...	44	...	...	...	...	...	...	...	44	...	...	88
Total:	106	461	179	...	...	...	...	...	...	44	...	...	790
NUT-SLACK													
Group 4:													
Drumheller	...	...	200	...	...	...	...	...	...	...	...	...	200
Total:	...	...	200	...	...	...	...	...	...	...	...	...	200
SLACK													
Group 4:													
Big Valley	...	...	...	37	...	...	...	...	...	...	...	...	37
Total:	...	...	...	37	...	...	...	...	...	...	...	...	37

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	1785	1375	1603	1683	1793	2055	1495	1607	1857	1799	1913	1691	20656
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	822	693	874	655	627	238	...	...	...	...	...	...	3909
Group 2:													
Crowsnest	1679	1681	2039	1628	1223	1109	1022	843	1176	1501	1899	1937	17737
Mtn. Park	4151	3416	3835	3288	3169	2160	1717	1562	1500	1569	2604	2673	31644
Group 3:													
Coalspur	4051	3423	3673	4074	3649	2953	2340	3563	2562	2328	3135	2742	38493
Halcourt	3	1	1	...	...	...	...	...	...	...	2	2	9
Lethbridge	528	350	285	117	90	99	58	78	105	144	448	413	2715
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	722	645	405	107	222	402	288	322	432	532	714	615	5406
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	13741	11584	12715	11552	10773	9016	6920	7975	7632	7873	10715	10073	120569

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4 ; Big Valley	...	...	....	...	...	...	...	...	...	...	95	260	355
Carbon	...	240	15	12	7	2	17	24	30	80	95	90	612
Drumheller	802	797	660	293	342	288	226	359	315	267	387	501	5237
Edmonton	351	305	137	105	75	33	30	67	99	127	231	247	1807
Pembina	40	40	40	40-	40	40	30	30	30	30	30	30	420
Group 5:													
Camrose	10	8	6	2	...	...	...	...	...	...	...	...	26
Castor	...	28	...	...	...	...	...	...	30	25	30	27	140
Rochester	5	...	...	...	...	...	...	...	...	...	...	...	5
Tofield	50	50	50	25	50	25	25	25	25	25	50	50	450
Total:	1258	1468	908	477	514	388	328	505	529	554	918	1205	9052

Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Group 1:													
Cascade	35	25	50	42	45	55	25	42	45	52	48	48	512
Group 2:													
Crowsnest	15	15	15	15	15	15	15	15	15	15	15	15	180
Group 3:													
Coalspur	31	33	36	33	37	66	18	30	30	22	38	3	377
Total:	81	73	101	90	97	136	58	87	90	89	101	66	1069

Amount of Sub-Bituminous Coal used by Colliery Railroads by areas during each month:

Group 4:													
Edmonton	10	...	...	...	...	...	...	...	...	...	...	...	10
Total:	10	...	...	...	...	...	...	...	...	...	...	...	10

Amount of Bituminous Coal used making Briquettes:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	4764	5901	11293	8497	11793	13992	8343	11547	13662	15300	16249	14379	135720
Nordegg	16661	17492	27592	24721	27186	11287	...	...	...	...	...	...	124939
Group 2:													
Crowsnest	2105	4644	3211	381	319	219	239	1385	3444	4919	3426	4527	28819
Mtn. Park	1559	4978	8636	6046	6262	8209	13084	10184	8505	10586	8443	11670	98162
Total:	25089	33015	50732	39645	45560	33707	21666	23116	25611	30805	28118	30576	387640

Amount of Bituminous Coal used making Coke:

Group 2													
Crowsnest	4499	6029	5499	3639	49	293	133	556	...	...	1106	1276	23079
Total:	4499	6029	5499	3639	49	293	133	556	...	...	1106	1276	23079

Amount of Bituminous Coal put to Stock by areas during each month:

Group 1:													
Cascade	1565	570	478	1052	2196	517	472	716	706	432	575	788	10067
Nordegg	...	...	670	...	...	...	...	...	...	...	...	...	670
Group 2:													
Crowsnest	26740	29451	36001	33372	31683	34056	19981	18487	8606	7588	9413	8451	263829
Mtn. Park	4813	2350	236	618	378	...	2666	...	643	1199	...	189	13092
Group 3:													
Coalspur	1158	357	23	39	185	33	466	45	83	45	46	236	2716
Lethbridge	128	381	180	219	106	456	257	68	231	219	310	163	2718
Pr. Creek	6	24	...	...	...	...	...	...	...	...	...	...	30
Saunders	...	...	...	195	100	211	85	75	122	104	145	121	1158
Total:	34410	33133	37588	35495	34648	35273	23927	19391	10391	9587	10489	9948	294280

Amount of Sub-Bituminous Coal put to stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Big Valley	470	100	...	...	20	...	...	460	1034	1260	370	40	3754
Carbon	6	...	...	...	...	...	...	...	...	...	...	...	6
Champion	...	...	...	...	...	...	...	...	8	...	...	...	8
Drumheller	374	367	1790	759	1326	2000	502	1113	493	915	791	273	10703
Edmonton	131	924	...	...	...	...	...	...	100	1404	1829	368	4756
Pembina	...	57	...	...	...	...	...	...	...	...	350	240	647
Taber	170	270	...	...	...	...	...	...	51	47	89	39	666
Group 5:													
Camrose	...	...	...	...	...	...	...	2	...	50	...	...	52
Castor	...	...	...	...	...	...	...	...	1	...	60	50	111
Tofield	...	...	...	...	...	...	...	...	20	100	...	...	120
Westlock	3	...	...	...	...	...	...	...	...	21	....	...	24
Total:	1154	1718	1790	759	1346	2000	502	1575	1707	3797	3489	1010	20847

Amount of Bituminous Coal put to Waste by areas during each month:

Group 1:													
Cascade	140	199	210	94	310	110	251	225	207	266	328	342	2682
Group 2:													
Crowsnest	8658	12415	27925	28729	29660	28600	25459	18548	16531	21444	17991	21695	257655
Mtn. Park	6017	10270	9479	2038	5168	707	1505	2202	4348	3445	6963	4669	56811
Group 3:													
Coalspur	1784	2189	2285	1896	2040	2214	1854	1718	1519	1965	3868	6501	29833
Lethbridge	16	18	22	356	14	14	17	23	22	24	23	22	571
Pincher	10	15	10	5	5	5	7	8	10	14	9	2	100
Total:	16625	25106	39931	33118	37197	31650	29093	22724	22637	27158	29182	33231	347652

Amount of Sub-Bituminous Coal put to Waste by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	7	28	17	10	15	10	10	18	36	100	500	450	1201
Big Valley	160	200	40	20	20	...	...	25	400	150	...	...	1015
Carbon	245	73	4	21	6	...	9	10	35	170	275	175	1023
Champion	13	10	7	...	2	6	4	3	...	13	15	12	85
Drumheller	...	...	2	...	...	...	...	82	...	...	...	...	84
Edmonton	48	...	...	...	...	...	...	...	...	...	200	...	248
Pembina	266	83	25	...	...	...	...	...	...	...	530	430	1334
Taber	71	49	49	30	...	24	...	...	...	...	...	...	223
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	10	10
Group 5:													
Camrose	50	18	15	...	...	3	1	...	4	...	128	92	311
Castor	511	440	105	25	16	...	5	20	107	243	480	1288	3240
Rochester	35	...	...	...	...	...	...	...	...	...	...	...	35
Sheerness	141	518	738	230	155	70	61	172	326	630	214	137	3392
Tofield	100	50	20	...	...	...	...	...	...	...	...	100	270
Westlock	91	50	5	...	...	...	...	...	...	55	140	52	393
Total:	1738	1519	1027	336	214	113	90	330	908	1361	2482	2746	12864

Amount of Bituminous Coal lifted from Stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	376	380	1692	478	1052	1051	517	675	2323	1261	751	575	11131
Nordegg	8	99	...	260	5	735	...	...	...	...	...	...	1107
Group 2:													
Crowsnest	21645	24961	32593	32066	31431	32215	29011	16557	10641	6506	3729	10546	251961
Mtn. Park	261	460	7008	8353	2242	378	...	2666	...	643	1199	...	23210
Group 3:													
Coalspur	83	453	297	370	22	173	34	60	115	21	74	45	1747
Lethbridge	206	128	381	180	565	106	456	257	68	231	219	310	3107
Saunders	...	...	...	99	195	100	211	85	75	122	104	145	1136
Total:	22579	26481	41971	41806	35512	34758	30289	20300	13222	8784	6076	11621	293399
Amount of Sub-Bituminous Coal lifted from Stock by areas during each month:													
Group 4:													
Big Valley	...	50	124	52	...	...	...	...	...	...	...	...	226
Drumheller	1855	374	517	2121	759	815	648	466	1658	1545	545	1354	12657
Edmonton	619	636	...	1032	358	208	...	...	...	...	...	238	3091
Group 5:													
Tofield	...	...	...	...	...	...	...	...	...	...	...	...	...
Westlock	32	...	29	...	...	51	...	...	24	...	...	...	136
Total:	2506	1060	670	3205	1117	1074	648	466	1682	1545	545	1592	16110

Amount of Bituminous Coal lifted from Waste by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	425	...	...	...	...	...	425
Group 2:													
Crowsnest	3775	108	...	...	...	...	1108	3692	1335	609	...	...	10627
Mtn. Park	622	...	...	2346	...	...	...	...	...	...	...	...	2968
Group 3:													
Total:	4397	108	...	2346	...	...	1533	3692	1335	609	...	...	14020

Amount of Sub-Bituminous Coal lifted from Waste by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Carbon	22	6	...	...	...	...	8	...	5	...	...	...	41
Group 5:													
Sheerness	...	...	...	488	843	368	...	...	...	...	...	...	1699
Total:	22	6	...	488	843	368	8	...	5	...	...	...	1740

OUTPUT AND NUMBER OF MINES PRODUCING

Kind of Coal	Under 1,000 tons		1,000 to 5,000 tons		5,000 to 10,000 tons		10,000 to 50,000 tons		50,000 to 100,000 tons		100,000 to 150,000 tons		150,000 to 200,000 tons		200,000 to 300,000 tons		Over 300,000 tons		Total	
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output
Bituminous	11	3,239	3	7,600	...	...	8	182,277	3	239,101	1	134,959	6	1,034,797	2	552,526	6	2,638,521	40	4,793,020
S.Bituminous	56	24,676	48	118,518	14	110,524	28	642,489	8	593,202	9	1,077,034	3	534,449	1	224,294	..	...	167	3,325,186
Total......	67	27,915	51	126,118	14	110,524	36	824,766	11	832,303	10	1,211,993	9	1,569,246	3	776,820	6	2,638,521	207	8,118,206

Number of men employed in the BITUMINOUS FIELD as at December 31st, 1950:

Areas	UNDERGROUND						ABOVE GROUND								STRIPPING			GRAND TOTALS		
	Salaried Employees	Foremen	Miners	Maintenance	Trans-portation	TOTAL UNDER-GROUND	Salaried Employees	Foremen	Maintenance	Trans-portation	Tipple and Shipping	Powerhouse	All other Employees	TOTAL ABOVE GROUND	Salaried Employees	Wage Earners	TOTAL STRIPPING	TOTAL SALARIED EMPLOYEES	TOTAL WAGE EARNERS	GRAND TOTAL
Group 1:																				
Cascade	31	1	157	38	67	294	29	1	26	43	42	45	32	218	...	...	...	60	452	512
Group 2:																				
Crowsnest	94	11	665	258	260	1288	101	5	43	48	243	148	23	611	15	188	203	210	1892	2102
Mtn. Park	22	6	97	64	54	243	29	...	3	25	70	29	38	194	12	57	69	63	443	506
Group 3:																				
Coalspur	28	...	211	74	89	402	20	4	...	3	67	41	19	154	35	270	305	83	778	861
Halcourt	2	...	1	...	...	3	...	...	...	...	...	...	...	...	...	1	...	2	1	3
Lethbridge	6	32	328	48	136	550	35	...	...	10	71	48	30	194	...	1	1	41	704	745
Pekisko	...	1	5	...	...	6	2	...	...	...	...	...	...	2	...	...	...	2	6	8
Pincher	...	1	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	2	2
Prairie Creek	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2	...	2
Saunders	6	4	82	10	15	117	6	2	2	9	14	9	1	43	...	...	...	12	148	160
Total	191	56	1546	492	622	2907	222	12	74	138	507	320	143	1416	62	516	578	475	4426	4901

Number of men employed in the SUB-BITUMINOUS FIELD as at December 31st, 1950

Group 4:																				
Ardley	1	2	3	...	...	6	...	...	...	...	...	...	...	...	3	24	27	4	29	33
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	29	31	2	29	31
Brooks	1	1	2	...	...	4	...	...	...	...	...	...	...	...	33	94	127	34	97	131
Carbon	5	2	68	4	13	92	4	1	...	3	9	1	...	18	5	18	23	14	119	133
Champion	3	...	12	1	2	18	...	...	...	1	...	...	...	1	...	...	...	3	16	19
Drumheller	36	100	903	237	238	1514	61	12	13	31	156	38	21	332	...	3	3	97	1752	1849
Edmonton	25	22	348	123	93	611	29	1	5	10	43	14	8	110	20	78	98	74	745	819
Gleichen	5	...	49	1	5	60	1	...	...	1	1	...	...	3	...	...	...	6	57	63
Milk River	..	...	1	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	2	2
Pembina	1	...	5	1	2	9	...	1	...	...	1	...	...	2	10	108	118	11	118	129
Taber	1	1	10	...	1	13	...	...	...	...	...	...	...	...	23	59	82	24	71	95
Wetaskiwin	1	1	3	...	...	5	...	...	...	...	...	...	...	...	...	...	...	1	4	5
Whitecourt	...	...	3	...	...	3	...	...	...	...	...	...	...	...	...	1	1	...	4	4
Group 5:																				
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	62	68	6	62	68
Castor	8	4	59	4	4	79	1	...	...	...	...	...	...	1	31	88	119	40	159	199
Pakowki	...	1	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2	2
Redcliff	1	...	10	...	...	11	...	1	4	4	4	...	...	13	...	...	...	1	23	24
Sheerness	...	2	...	...	...	2	...	...	...	...	...	...	...	...	8	24	32	8	26	34
Tofield	...	1	6	...	...	7	...	...	...	...	...	...	...	...	7	89	96	7	96	103
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	17	21	4	17	21
Total:	88	137	1483	371	358	2437	96	16	22	50	215	53	29	481	152	694	846	336	3428	3764
Bituminous Field	191	56	1546	492	622	2907	222	12	74	138	507	320	143	1416	62	516	578	475	4426	4901
S.Bituminous Field	88	137	1483	371	358	2437	96	16	22	50	215	53	29	481	152	694	846	336	3428	3764
Total:	279	193	3029	863	980	5344	318	28	96	188	722	373	172	1897	214	1210	1424	811	7854	8665

Men Employed above and below ground in the BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	393	353	394	398	414	436	429	486	490	501	520	512	444
Nordegg	420	384	409	422	402	402	...	...	...	...	...	...	203
Group 2:													
Crowsnest	2315	2233	2400	2384	2277	2285	2213	2184	2156	2136	2144	2102	2235
Mtn. Park	715	677	707	657	618	514	448	509	553	532	535	506	581
Group 3:													
Coalspur	738	755	752	700	695	679	750	719	748	741	862	861	750
Halcourt	3	2	1	...	2	...	...	...	2	3	4	3	2
Lethbridge	744	735	705	637	614	587	605	657	665	688	753	745	678
Morley	...	3	...	...	...	...	...	...	...	...	...	...	1
Pekisko	8	8	8	6	6	6	...	6	6	6	7	8	6
Pincher	4	4	4	2	2	2	2	2	2	2	2	2	2
Prairie Creek	4	5	...	...	...	...	...	...	...	4	2	2	2
Saunders	143	143	142	40	96	108	121	122	130	131	154	160	124
Total:	5487	5302	5522	5246	5126	5019	4568	4685	4752	4744	4983	4901	5028

Men Employed above and below ground in the SUB-BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	35	32	22	7	4	2	5	4	15	26	38	33	18
Big Valley	33	35	19	16	4	7	6	31	25	36	31	31	23
Brooks	72	68	67	...	...	...	104	55	119	74	77	131	64
Carbon	159	162	78	71	47	36	68	79	88	107	125	133	96
Champion	15	15	14	9	7	7	8	9	11	15	15	19	12
Drumheller	2196	2198	2125	1727	1680	1659	1702	1786	1814	1775	1850	1849	1863
Edmonton	750	695	484	206	184	189	198	276	382	597	656	819	453
Gleichen	55	62	45	26	18	20	18	20	25	42	60	63	38
Milk River	2	2	2	1	1	1	1	1	2	3	4	2	2
Pembina	85	80	57	68	78	22	55	35	45	85	141	129	73
Taber	74	52	26	6	2	6	...	96	99	97	105	95	55
Wetaskiwin	6	5	4	2	...	...	...	3	3	3	5	5	3
Whitecourt	1	1	...	...	...	...	...	...	...	...	2	4	2
Group 5:													
Camrose	105	104	67	41	27	30	30	31	25	48	69	68	53
Castor	189	178	115	33	33	25	34	23	48	124	183	199	98
Pakowki	2	2	1	1	...	...	1	2	2	2	3	2	2
Redcliff	7	...	...	...	7	5	8	12	16	31	32	24	12
Rochester	2	2	1	...	...	...	...	...	...	...	...	...	1
Sheerness	19	37	46	21	13	24	10	17	18	30	37	34	25
Slave	2	1	...	...	...	...	...	...	...	...	...	...	1
Tofield	95	79	58	50	40	41	47	44	53	90	104	103	67
Westlock	27	15	9	3	2	1	...	...	9	18	20	21	10
Total	3931	3825	3240	2288	2147	2075	2295	2524	2799	3203	3557	3764	2971
Bituminous	5487	5302	5522	5246	5126	5019	4568	4685	4752	4744	4983	4901	5028
S.Bituminous	3931	3825	3240	2288	2147	2075	2295	2524	2799	3203	3557	3764	2971
Total:	9418	9127	8762	7534	7273	7094	6863	7209	7551	7947	8540	8665	7999

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE:

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of employed men underground	Tons of coal mined per man employed underground
1906.......	1,385,000	2,800	494	2,000	692
1907.......	1,834,745	3,600	509	2,700	679
1908.......	1,845,000	3,780	488	2,681	688
1909.......	2,174,329	5,207	417	3,893	566
1910.......	3,036,757	5,818	504	4,090	742
1911.......	1,694,564	6,689	253	4,517	375
1912.......	3,446,349	6,661	517	4,861	708
1913.......	4,306,346	8,068	533	5,837	737
1914.......	3,821,739	8,170	467	6,052	631
1915.......	3,434,891	6,445	532	4,493	764
1916.......	4,648,604	7,570	614	5,536	839
1917.......	4,863,414	8,310	595	6,047	804
1918.......	6,148,620	8,818	697	6,141	1,001
1919.......	5,022,412	7,573	663	5,150	958
1920.......	6,908,923	9,688	712	6,551	1,055
1921.......	5,937,195	10,018	592	7,203	824
1922.......	5,976,432	8,747	683	6,154	971
1923.......	6,866,923	9,927	687	7,249	893
1924.......	5,202,713	7,317	711	5,299	982
1925.......	5,883,394	8,774	670	6,498	834
1926.......	6,508,908	8,763	743	6,569	991
1927.......	6,936,780	9,016	768	6,681	970
1928.......	7,334,179	9,496	772	6,625	1,107
1929.......	7,147,250	9,572	747	7,115	1,004
1930.......	5,755,911	8,889	648	6,607	871
1931.......	4,563,309	8,070	577	5,969	701
1932.......	4,867,984	7,837	621	5,772	844
1933.......	4,714,784	8,042	586	5,937	794
1934.......	4,748,848	7,863	604	5,809	744
1935.......	5,462,973	7,800	700	5,644	969
1936.......	5,696,375	8,110	702	5,940	959
1937.......	5,551,682	7,836	708	5,806	956
1938.......	5,230,015	7,411	706	5,427	965
1939.......	5,518,105	7,456	740	5,517	1,000
1940.......	6,205,088	7,416	836	5,526	1,122
1941.......	6,970,064	7,714	903	6,916	1,007
1942.......	7,754,279	8,040	964	5,865	1,322
1943.......	7,677,982	8,636	889	6,197	1,160*
1944.......	7,427,433	8,375	887	6,867	1,135*
1945.......	7,801,248	8,309	939	5,752	1,298*
1946.......	8,824,455	8,583	1,028	6,897	1,187*
1947.......	8,074,596	8,772	920	6,090	1,017*
1948.......	8,111,013	8,865	915	5,702	946*
1949.......	8,616,983	8,682	993	5,534	1,025*
1950.......	8,118,206	7,999	1,015	4,990	1,006*

* See Note over page

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

Year	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,309	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	501	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698
1934	2,295,566	4,289	535	3,370	644
1935 Stp. Pit	130,084	96	1,355	...	...
B. Ground	2,517,828	3,927	658	3,058	823
1936 Stp. Pit	80,111	107	749	...	...
B. Ground	2,761,120	4,112	671	3,243	851
1937 Stp. Pit	80,116	79	1,014	....	...
B. Ground	2,551,034	3,148	810	3,162	832
1938 Stp. Pit	72,829	74	945	...	...
B. Ground	2,380,434	3,573	667	2,846	801*
1939 Stp. Pit	76,394	73	1,048	...	...
B. Ground	2,372,805	3,636	653	2,900	818*
1940 Stp. Pit	74,021	71	1,042	...	...
B. Ground	2,463,184	3,556	692	2,844	866*
1941 Stp. Pit	88,142	63	1,399	...	...
B. Ground	2,625,112	3,427	766	2,745	956*
1942 Stp. Pit	119,615	67	1,785	...	...
B. Ground	3,093,498	3,485	888	2,777	1,114*
1943 Stp. Pit	137,307	78	1,760	...	...
B. Ground	3,278,730	4,016	816	3,133	1,046*
1944 Stp. pit	366,862	263	1,395	...	...
B. Ground	2,779,939	3,565	882	2,826	984*

* See note over page.

NOTE: Alberta Coals have been re-classified and Domestic Coal is now included in the new headings "Bituminous" and "Sub-Bituminous".

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1922-Stp. Pit....	367,514	217	1,693	...	...
B. Ground...	267,559	403	664	277	966
1923-Stp. Pit....	288,467	190	1,513	...	...
B. Ground...	174,994	354	494	260	673
1924-Stp. Pit....	369,724	211	1,752	...	...
B. Ground...	222,222	393	565	278	799
1925-Stp. Pit....	335,993	162	2,074	...	...
B. Ground...	245,842	461	533	326	754
1926-Stp. Pit....	258,964	147	1,761	...	...
B. Ground...	231,407	443	545	305	758
1927-Stp. Pit....	304,584	193	1,583	...	...
B. Ground...	290,606	478	608	321	905
1928-Stp. Pit....	394,682	179	2,205	...	...
B. Ground...	345,810	645	536	457	756
1929-Stp. Pit....	319,764	163	1,962	...	...
B. Ground...	348,344	585	595	402	866
1930-Stp. Pit....	304,144	157	1,937	...	...
B. Ground...	299,187	569	526	390	767
1931-Stp. Pit....	280,251	161	1,803	...	...
B. Ground...	191,138	486	393	336	569
1932-Stp. Pit....	348,266	177	1,968	...	...
B. Ground...	211,213	491	430	341	619
1933-Stp. Pit....	309,365	170	1,820	...	...
B. Ground...	244,776	516	474	370	661
1934-Stp. Pit....	302,054	158	1,912	...	...
B. Ground...	235,488	482	489	326	722
1935-Stp. Pit....	287,970	180	1,600	...	...
B. Ground...	278,466	501	830	337	826
1936-Stp. Pit....	263,899	175	1,508	...	...
B. Ground...	302,587	532	569	360	841
1937-Stp. Pit....	229,747	149	1,542	...	...
B. Ground...	276,782	504	549	348	795
1938-Stp. Pit....	227,317	148	1,536	...	...
B. Ground...	261,595	633	772	327	800"
1939-Stp. Pit....	246,459	142	1,735	...	...
B. Ground...	265,646	494	538	320	830"
1940-Stp. Pit....	318,425	241	1,321	...	...
B. Ground...	280,261	393	713	328	854"
1941-Stp. Pit....	320,801	272	1,179	...	...
B. Ground...	264,652	284	689	248	1,069"
1942-Stp. Pit....	332,748	191	1,742	...	...
B. Ground...	400,799	521	769	342	1,172"
1943-Stp. Pit....	351,890	360	967	...	...
B. Ground...	440,062	442	996	399	1,102"
1944-Stp. Pit....	280,420	161	1,742	...	...
B. Ground...	449,007	589	973	386	1,163"
1945-Stp. Pit....	833,129	330	2,525	...	...
B. Ground...	2,367,356	2,915	812	2,379	991"
1946-Stp. Pit....	831,505	316	2,631	...	...
B. Ground...	2,603,354	3,066	849	2,513	1,036
1947-Stp. Pit....	709,704	339	2,094	...	...
B. Ground...	2,527,516	3,183	794	2,859	884
1948-Stp. Pit....	1,007,042	385	2,616	...	...
B. Ground...	2,183,175	3,010	725	2,444	893
1949-Stp. Pit....	1,027,493	432	2,378	...	...
B. Ground...	2,094,163	2,819	743	2,297	912
1950-Stp. Pit....	1,233,234	466	2,646	...	...
B. Ground...	2,091,952	2,505	835	2,042	1,024

#See Note.

BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910........	1,896,961	2,981	636	2,076	914
1911........	649,745	2,645	246	1,820	357
1912........	1,926,371	3,243	594	2,353	818
1913........	2,374,401	3,562	666	2,645	897
1914........	1,953,367	3,529	553	2,632	742
1915........	1,626,237	2,921	557	2,103	773
1916........	2,335,259	3,142	743	2,258	1,034
1917........	2,206,868	3,335	661	2,429	909
1918........	2,982,334	3,636	820	2,597	1,109
1919........	2,325,787	3,118	745	2,100	1,108
1920........	3,419,021	4,228	809	2,711	1,202
1921........	2,897,380	4,133	701	2,820	1,026
1922........	2,214,273	3,034	730	2,084	1,062
1923........	3,241,614	4,345	746	3,215	1,008
1924........	1,515,107	2,171	698	1,574	966
1925........	2,145,200	3,277	654	2,422	885
1926........	2,858,508	3,375	847	2,550	1,121
1927........	2,984,419	3,682	810	2,757	1,082
1928........	3,215,481	3,862	832	2,468	1,302
1929........	3,093,393	3,880	797	2,898	1,077
1930........	2,278,490	3,341	682	2,461	926
1931........	1,846,357	3,023	611	2,214	834
1932........	1,733,720	2,621	660	1,892	916
1933........	1,726,596	2,876	600	2,080	830
1934........	1,915,740	2,934	653	2,113	907
1935........	2,248,625	3,096	726	2,248	1,000
1936........	2,288,658	3,184	719	2,337	979
1937........	2,414,003	3,156	765	2,295	1,052
1938........	2,287,840	3,131	731	2,254	1,015
1939........	2,556,801	3,111	822	2,297	1,113
1940........	3,069,197	3,155	972	2,354	1,303
1941........	3,671,357	3,568	1,029	2,659	1,381
1942........	3,807,619	3,766	1,008	2,746	1,387
1943........	3,469,993	3,740	927	2,665	1,302
1944 Stp. Pit.	119,092	35	3,403	...	...
B. Ground	3,432,113	3,762	935	2,655	1,293
1945 Stp. Pit.	491,736	209	2,364	...	...
B. Ground	4,109,027	4,825	852	3,373	1,218
1946Stp. Pit.	991,335	332	2,986	...	...
B. Ground	4,398,261	4,869	903	3,384	1,300
1947 Stp. Pit.	1,170,875	405	2,891	...	...
B. Ground	3,666,501	4,845	757	3,231	1,135
1948 Stp. Pit.	1,709,039	552	3,096	...	...
B. Ground	3,211,757	4,918	653	3,258	986
1949 Stp. Pit	1,914,463	630	3,039	...	...
B. Ground	3,580,864	4,801	746	3,237	1,106
1950 Stp. Pit	1,865,120	588	3,172	...	...
B. Ground	2,927,900	4,440	659	2,948	993
ANTHRACITE COAL FIELD					
1910........	261,765	530	493	338	774
1911........	80,119	500	160	209	383
1912........	178,589	438	407	225	793
1913........	168,720	489	345	263	641
1914........	170,971	422	405	230	743
1915........	125,732	343	366	180	698
1916........	140,544	296	474	141	996
1917........	118,717	284	418	129	920
1918........	131,225	286	458	124	1,058
1919........	85,616	229	374	95	901
1920........	130,594	287	455	117	1,116
1921........	96,674	284	341	127	761
1922........	40,417	112	361	41	986
1923........	107	69	1	9	12

NOTE: The table showing the number of men employed in the Anthracite Coal Field includes employees at the briquetting plant. There has been no Anthracite Coal produced since 1923.

* Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from the mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under Permit.

NOTE: Previous to 1944 there was no coal mined in the Bituminous Field by stripping methods.

PER CAPITA PRODUCTION OF MINES BY AREAS:
BITUMINOUS COAL FIELD

Area	Strip and Underground Mining					Strip Mining					Underground Mining				
	Gross tons of Coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight hour man shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight hour man shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight hour man shift
Group 1:															
Cascade	346,339	444	780	99,007	3.50	899	1	899	107	8.40	345,440	443	780	98,900	3.49
Nordegg	154,272	203	760	43,308	3.56	10,973	5	2,195	1,355	8.10	143,299	198	724	41,953	3.42
Group 2:															
Crowsnest ..	2,043,659	2,235	914	451,106	4.53	730,863	223	328	50,432	14.49	1,312,796	2,012	652	400,674	3.28
Mountain Park	982,667	581	1,691	144,983	6.78	759,897	140	5,428	36,863	20.61	222,770	441	505	108,120	2.06
Group 3:															
Coalspur ...	794,957	750	1,060	186,269	4.27	361,355	215	1,681	59,636	6.06	433,602	535	810	126,633	3.42
Halcourt ...	297	2	149	275	1.08	20	1	20	15	1.33	277	1	277	260	1.07
Lethbridge .	406,502	678	600	136,688	2.97	701	1	701	61	11.49	405,801	677	599	136,627	2.97
Morley	302	1	302	42	7.19	302	1	302	42	7.19	...	...	...	...	...
Pekisko	3,096	6	516	868	3.57	...	...	...	...	...	3,096	6	516	868	3.57
Pincher	734	2	367	520	1.41	...	...	...	...	...	734	2	367	520	1.41
Prairie Creek	297	2	149	237	1.25	110	1	110	53	2.08	187	1	187	184	1.02
Saunders ...	59,898	124	483	26,694	2.24	...	...	...	...	...	59,898	124	483	26,694	2.24
Total........	4,793,020	5,028	953	1,089,997	4.40	1,865,120	588	3,172	148,564	12.55	2,927,900	4,440	659	941,433	3.11

SUB-BITUMINOUS FIELD

Group 4:															
Ardley.......	34,757	18	1,931	3,874	8.97	33,350	13	2,565	3,189	10.46	1,407	5	281	685	2.05
Big Valley...	33,489	23	1,456	4,055	8.26	33,489	23	1,456	4,055	8.26	...	...	...	...	...
Brooks.......	86,369	64	1,350	12,714	6.79	85,670	62	1,382	12,161	7.04	699	2	350	553	1.26
Carbon.......	68,529	96	714	18,067	3.79	15,409	13	1,185	2,404	6.41	53,120	83	640	15,663	3.39
Champion.....	6,372	12	531	1,539	4.14	...	...	...	...	...	6,372	12	531	1,539	4.14
Drumheller...	1,636,424	1,863	878	408,368	4.01	5,670	4	1,418	1,370	4.14	1,630,754	1,859	877	406,998	4.01
Edmonton.....	495,636	453	1,094	97,678	5.07	182,556	47	3,884	12,478	14.63	313,080	406	771	85,200	3.67
Gleichen.....	15,896	38	418	7,622	2.09	...	...	...	...	...	15,896	38	418	7,622	2.09
Milk River...	733	2	367	252	2.91	...	...	...	...	...	733	2	367	252	2.91
Pembina......	197,901	73	2,711	16,859	11.74	195,790	69	2,838	16,229	12.06	2,111	4	528	630	3.35
Taber........	136,267	55	2,478	12,136	11.23	130,122	44	2,957	9,874	13.18	6,145	11	559	2,262	2.72
Wetaskiwin...	1,459	3	486	662	2.20	...	...	...	...	...	1,459	3	486	662	2.20
Whitecourt...	850	2	425	119	7.14	845	1	845	106	7.97	5	1	5	13	.38
Group 5:															
Camrose......	96,101	53	1,813	12,625	7.61	87,161	38	2,294	9,978	8.74	8,940	15	596	2,647	3.38
Castor.......	218,224	98	2,227	22,034	9.90	184,154	54	3,410	12,786	14.40	34,070	44	774	9,248	3.68
Pakowki......	494	2	247	195	2.53	...	...	...	...	...	494	2	247	195	2.53
Redcliff.....	14,120	12	1,177	2,229	6.33	1,408	1	1,408	70	20.11	12,712	11	1,156	2,159	5.89
Rochester....	261	1	261	60	4.35	261	1	261	60	4.35	...	...	...	...	...
Sheerness....	62,919	25	2,517	5,470	11.50	62,641	24	261	5,368	11.67	278	1	278	102	2.73
Slave........	88	1	88	15	5.87	88	1	88	15	5.87	...	...	...	...	...
Tofield......	205,755	67	3,071	16,456	12.50	202,078	61	3,313	15,840	12.76	3,677	6	613	616	5.97
Westlock.....	12,542	10	1,254	2,290	5.48	12,542	10	1,254	2,290	5.48	...	...	...	...	...
Total.........	3,325,186	2,971	1,119	645,319	5.15	1,233,234	466	2,646	108,273	11.39	2,091,952	2,505	835	537,046	3.90

SUMMARY

Bituminous....	4,793,020	5,028	953	1,089,997	4.40	1,865,120	588	3,172	148,564	12.55	2,927,900	4,440	659	941,433	3.11
Sub-bituminous	3,325,186	2,971	1,119	645,319	5.15	1,233,234	466	2,646	108273	11.39	2,091,952	2,505	835	537,046	3.90
Total.........	8,118,206	7,999	1,015	1,735,316	4.68	3,098,354	1,054	2,940	256,837	12.06	5,019,852	6,945	723	1,478,479	3.40

Number of days on which Coal was drawn in the BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	20.3	17.7	22.3	17.3	21.0	18.7	17.0	17.7	19.3	21.0	22.0	20.0	234.3
Nordegg	19.0	19.0	23.0	19.0	21.0	9.0	...	...	...	...	...	...	110.0
Group 2:													
Crowsnest	13.1	13.1	23.9	16.7	20.9	18.4	18.3	14.8	16.4	18.1	17.5	20.0	211.2
Mtn. Park	19.3	22.3	24.3	16.5	15.0	12.0	24.0	17.5	20.5	22.5	21.5	21.0	236.4
Group 3:													
Coalspur	16.6	19.2	19.8	19.3	20.5	22.5	19.4	16.0	20.6	23.0	21.3	18.0	236.2
Halcourt	15.0	11.5	16.0	...	20.0	...	...	...	26.0	25.0	22.0	17.0	152.5
Lethbridge	14.7	15.0	14.3	8.0	11.0	11.7	15.7	18.5	19.2	18.5	19.5	13.9	180.0
Morley	...	21.0	...	...	...	...	...	...	...	...	...	...	21.0
Pekisko	15.0	9.0	4.0	1.0	4.0	7.0	...	12.0	13.0	20.0	22.0	19.0	126.0
Pincher	15.0	16.0	18.0	10.0	10.0	10.0	15.0	20.0	16.0	24.0	10.0	2.0	166.0
Pr. reek	14.5	12.0	...	...	...	...	...	...	...	14.0	14.0	21.0	75.5
Saunders	19.0	20.0	12.0	8.0	11.0	19.0	13.5	16.0	19.0	21.0	22.0	19.0	199.5
Total:	181.5	195.8	177.6	115.8	154.4	128.3	122.9	132.5	170.0	207.1	191.8	170.9	1948.6
													162.4

Number of days in which Coal was drawn in the SUB-BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	22.9	18.3	12.3	9.7	16.0	15.0	7.3	16.5	17.0	19.2	22.1	20.0	196.3
Big Valley	17.3	21.3	14.3	5.5	6.0	2.5	5.5	14.0	15.3	21.6	23.6	14.7	161.6
Brooks	20.0	15.0	2.0	...	...	...	4.0	11.0	19.5	17.5	22.0	18.5	129.5
Carbon	22.1	17.0	9.2	6.8	8.8	8.3	11.0	12.2	14.9	19.1	19.1	18.0	166.5
Champion	19.3	16.7	10.0	12.5	11.3	12.7	10.0	16.7	19.3	22.0	21.0	15.5	187.0
Drumheller	20.1	19.3	15.5	10.9	15.3	15.0	12.2	17.4	19.3	19.6	20.1	18.9	203.6
Edmonton	20.8	17.3	14.9	11.8	13.2	11.1	10.5	16.5	17.6	20.0	22.7	21.2	197.6
Gleichen	23.5	22.0	16.0	11.2	14.5	15.0	11.3	21.0	19.5	22.0	23.2	20.0	219.2
Milk River	18.0	20.0	14.0	8.0	10.0	4.0	10.0	10.0	24.0	24.0	23.0	16.0	181.0
Pembina	19.1	16.6	15.0	9.3	15.0	12.3	11.8	12.5	17.6	18.0	22.1	18.3	187.6
Taber	13.4	18.0	12.5	18.0	2.0	18.0	...	10.5	17.4	19.5	21.2	17.2	167.7
Wetaskiwin	21.0	20.0	15.0	10.0	...	...	...	12.0	17.0	23.0	22.0	18.0	158.0
Whitecourt	21.0	14.0	...	...	...	...	...	...	...	...	24.0	16.0	75.0
Group 5:													
Camrose	19.4	14.6	18.8	13.0	10.0	7.5	6.0	16.0	12.6	19.2	21.4	19.2	177.7
Castor	17.9	14.2	10.3	9.3	9.0	4.3	6.8	12.4	14.6	15.7	20.5	18.5	153.5
Pakowki	10.0	5.0	2.0	2.0	...	...	6.0	10.0	13.0	22.0	21.0	24.0	115.0
Redcliff	10.0	...	...	...	2.0	24.0	18.0	25.0	20.0	10.0	26.0	24.0	159.0
Rochester	24.0	1.0	10.0	...	...	...	...	...	...	...	...	...	35.0
Sheerness	20.8	18.8	23.3	9.8	16.0	7.7	10.5	8.3	15.3	14.5	18.3	11.2	174.5
Slave	6.0	4.0	...	...	...	...	...	...	...	...	...	...	10.0
Tofield	20.8	16.0	14.2	9.0	11.3	9.3	8.5	7.7	13.5	16.6	20.0	16.4	163.3
Westlock	23.7	21.3	16.7	10.5	5.5	4.0	...	...	7.3	23.6	24.3	23.0	159.9
Total:	411.1	330.4	246.0	167.3	165.9	170.7	149.4	249.7	314.7	367.1	437.6	368.6	3378.5
													153.6
Bituminous	181.5	195.8	177.6	115.8	154.4	128.3	122.9	132.5	170.0	207.1	191.8	170.9	1948.6
S.Bituminous	411.1	330.4	246.0	167.3	165.9	170.7	149.4	249.7	314.7	367.1	437.6	368.6	3378.5
Total:	592.6	526.2	423.6	283.1	320.3	299.0	272.3	382.2	484.7	574.2	629.4	539.5	5327.1
													158.0

Total number of shifts worked above and below ground by areas during each month, for the six months ending
June 30th, 1950
BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1:														
Cascade	2891	2988	2249	2569	3527	4520	2896	3860	3329	5020	5823	5293	20715	24250
Nordegg	3239	4896	2168	4589	2757	6021	2323	5041	2569	5414	1757	2534	14813	28495
Group 2:														
Crowsnest	14936	15022	14745	15560	21755	30513	16470	21812	17439	25798	16493	22316	101838	131021
Mtn. Park	9588	4644	9139	4578	11109	6268	8397	4799	7704	3995	6115	3504	52052	27788
Group 3:														
Coalspur	7869	7475	8128	7200	9191	8127	7465	6565	7840	7323	7869	7443	48362	44133
Halcourt	...	45	15	8	...	16	...	...	...	20	...	...	15	89
Lethbridge	3490	10225	3550	9577	3199	6016	2481	5224	2640	5680	2880	7288	18240	44010
Morley	...	...	42	...	...	...	...	...	...	...	...	...	42	...
Pekisko	15	105	9	63	4	28	1	5	4	20	7	35	40	256
Pincher	...	60	...	64	...	76	...	32	...	32	...	30	...	294
Prairie Creek	33	24	38	24	...	...	...	...	...	...	...	...	71	48
Saunders	842	1889	846	1819	654	1425	204	240	527	750	674	1438	3747	7561
Total:	42903	47373	40929	46051	52196	63010	40237	47578	42052	54052	41618	49881	259935	307945

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31st, 1950
BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July To Dec.		Total for year 1950	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1:																
Cascade	2407	3918	3971	4660	4009	4900	4326	5617	4774	6068	4172	5220	23659	30383	44374	54633
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14813	28495
Group 2:																
Crowsnest	16079	21491	14506	15998	15003	19572	16464	21029	17718	20104	16889	23394	96659	121588	198497	252609
Mtn. Park	6589	3523	6862	2766	7725	3733	7382	4568	6786	4930	5966	4313	41310	23833	93362	51621
Group 3:																
Coalspur	7353	6470	6906	6265	8395	6264	8942	7065	11255	7791	10191	6877	53042	40732	101404	84865
Halcourt	...	...	...	...	...	26	...	50	...	44	...	51	...	171	15	260
Lethbridge	2810	6602	3478	9469	3378	9033	3226	8871	4020	11135	3098	9318	20010	54428	38250	98438
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42	...
Pekisko	...	...	12	60	13	65	20	100	44	106	38	114	127	445	167	701
Pincher	...	34	...	40	...	36	...	48	...	34	...	34	...	226	...	520
Pr. Creek	...	...	...	...	...	...	14	34	...	28	...	42	14	104	85	152
Saunders	623	1072	672	1368	772	1706	863	1924	970	2422	835	2159	4735	10651	8482	18212
Total	35861	43110	36407	40626	39295	45335	41237	49306	45567	52662	41189	51522	239556	282561	499491	590506

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30th, 1950.

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 4:														
Ardley	555	138	372	130	190	51	56	15	78	16	32	...	1283	350
Big Valley	625	...	538	...	176	...	90	...	82	...	70	...	1581	...
Brooks	1555	...	1347	...	757	...	...	...	...	...	...	...	3659	...
Carbon	911	2103	921	1895	247	560	213	336	183	341	136	287	2611	5522
Champion	20	205	20	193	13	138	11	76	...	74	...	64	64	750
Drumheller	8857	34166	8564	32917	7902	30399	5480	18729	6173	22344	6517	24487	43493	163042
Edmonton	3686	11740	2997	8512	2037	4181	1142	1792	1253	1945	1361	1739	12476	29909
Gleichen	71	989	64	995	44	540	30	228	44	253	44	250	297	3255
Milk River	...	18	...	20	...	14	...	8	...	10	...	4	...	74
Pembina	1858	64	1342	80	981	35	681	...	1659	...	394	...	6915	179
Taber	1006	188	807	170	80	200	...	54	...	4	...	108	1893	724
Wetaskiwin	...	126	...	100	...	60	...	20	...	...	...	...	...	306
Whitecourt	21	...	14	...	...	...	...	...	...	...	...	...	35	...
Group 5:														
Camrose	1338	922	1097	704	583	455	334	170	723	...	725	...	4800	2251
Castor	2001	1980	1765	1427	808	318	311	187	472	81	429	34	5786	4027
Pakowki	...	20	...	10	...	2	...	2	...	...	...	...	...	34
Redcliff	70	...	...	...	...	...	...	...	8	6	50	72	128	78
Rochester	48	...	2	...	10	...	...	...	...	...	...	...	60	...
Sheerness	302	32	733	20	884	16	314	12	251	...	307	...	2791	80
Slave	11	...	4	...	...	...	...	...	...	...	...	...	15	...
Tofield	2034	136	1577	80	1116	66	776	28	548	4	693	24	6744	338
Westlock	426	...	298	...	161	...	45	...	29	...	26	...	985	...
Total:	25395	52827	22462	47253	15989	37035	9483	21657	11503	25078	10784	27069	95616	210919

SUMMARY

Bituminous	42903	47373	40929	46051	52196	63010	40237	47578	42052	54052	41618	49881	259935	307945
S. Bituminous	25395	52827	22462	47253	15989	37035	9483	21657	11503	25078	10784	27069	95616	210919
Total:	68298	100200	63391	93304	68185	100045	49720	69235	53555	79130	52402	76950	355551	518864

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31st, 1950

SUB-BITUMINOUS FIELD

Areas:	July		August		September		October		November		December		Total July To Dec.		Total 1950	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 4:																
Ardley	43	22	52	22	173	29	471	47	648	109	519	106	1906	335	3189	685
Big Valley	73	...	325	...	401	...	565	...	627	...	483	...	2474	...	4055	...
Brooks	1538	...	560	72	1400	100	1367	167	1481	117	2180	73	8526	529	12185	529
Carbon	242	506	338	777	457	895	651	1388	699	1709	688	1584	3075	6859	5686	12381
Champion	...	62	...	74	...	110	22	136	22	132	7	160	51	674	115	1424
Drumheller	5829	19000	6925	24199	7197	27827	7278	28284	7791	29792	7571	30140	42591	159242	86084	322284
Edmonton	1173	1411	1756	3073	2041	4409	3096	8388	3614	10452	4104	11776	15784	39509	28260	69418
Gleichen	30	171	53	312	62	430	68	656	70	1211	57	950	340	3730	637	6985
Milk River	...	10	...	18	...	24	24	24	23	23	16	16	63	115	63	189
Pembina	998	...	585	...	838	29	1804	...	2825	214	2337	135	9387	378	16302	557
Taber	...	...	1147	300	1625	333	1793	252	1771	423	1645	230	7981	1538	9874	2262
Wetaskiwin	...	...	...	36	...	51	...	69	...	110	...	90	....	356	...	662
Whitecourt	...	...	...	...	...	...	...	...	48	...	23	13	71	13	106	13
Group 5:																
Camrose	726	...	535	...	492	...	976	...	1418	...	1427	...	5574	...	10374	2251
Castor	423	89	80	202	73	665	1241	873	2632	1660	2834	1449	7283	4938	13069	8965
Pakowki	...	6	...	20	...	26	...	34	...	51	...	24	...	161	...	195
Redcliff	78	61	129	95	138	128	226	96	291	286	256	239	1118	905	1246	983
Rochester	...	...	...	...	...	....	...	...	...	...	...	...	...	...	60	...
Sheerness	123	...	357	...	395	...	515	5	621	12	566	5	2577	22	5368	102
Slave	...	...	...	...	...	...	...	...	...	...	...	...	....	...	15	...
Tofield	1032	24	787	29	1231	27	1917	54	2282	39	1868	84	9117	257	15861	595
Westlook	...	...	...	...	156	...	310	...	436	...	403	...	1305	...	2290	...
Total	12308	21362	13629	29229	16679	35083	22324	40473	27299	46340	26984	47074	119223	219561	214839	430480
SUMMARY																
Bituminous	35861	43110	36407	40626	39295	45335	41237	49306	45567	52662	41189	51522	239556	282561	499491	590506
S.Bituminous	12308	21362	13629	29229	16679	35083	22324	40473	27299	46340	26984	47074	119223	219561	214839	430480
Total;	48169	64472	50036	69855	55974	80418	63561	89779	72866	99002	68173	98596	358779	502122	714330	1020986

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT

Year	Gross tons of coal mined	Total No. of Eight-hour Man-shifts	Average No. of Tons of Coal Mined per Eight-hour Shift
1927.............	6,936,780	2,196,712	3.157
1928.............	7,334,179	2,282,098	3.213
1929.............	7,147,250	2,261,064	3.161
1930.............	5,755,911	1,823,826	3.155
1931.............	4,563,309	1,396,696	3.267
1932.............	4,867,984	1,475,813	3.299
1933.............	4,714,784	1,440,985	3.271
1934.............	4,748,848	1,342,086	3.538
1935.............	5,462,973	1,614,032	3.384
1936.............	5,696,375	1,696,998	3.356
1937.............	5,551,682	1,620,003	3.426
1938.............	5,230,015	1,498,855	3.489
1939.............	5,518,105	1,549,042	3.562
1940.............	6,205,088	1,673,948	3.706
1941.............	6,970,064	1,877,968	3.711
1942.............	7,754,279	2,229,655	3.477
1943.............	7,677,982	2,200,426	3.489
1944.............	7,427,433	2,034,155	3.651
1945.............	7,801,248	1,990,452	3.919
1946.............	8,824,455	2,105,511	4.191
1947.............	8,074,596	1,998,002	4.041
1948.............	8,111,013	1,894,837	4.280
1949.............	8,616,983	1,910,922	4.510
1950.............	8,118,206	1,735,316	4.678

AMOUNT OF MINE TIMBER USED DURING THE YEAR

BITUMINOUS COAL FIELD

Area:	Timber, lineal feet	Lumber, B.M. feet	Lagging, lineal feet	Ties, lineal feet	Sprags, lineal feet
Group 1:					
Cascade	389,170	18,200	37,585	32,288	...
Nordegg	377,535	...	...	...	...
Group 2:					
Crowsnest	2,976,649	2,384,140	1,030,036	54,466	7,800
Mountain Park	252,664	501,197	149,720	5,975	5,200
Group 3:					
Coalspur	678,907	570,860	147,200	28,870	...
Halcourt	1,600	500	1,960	...	...
Lethbridge	878,368	65,260	2,250	56,340	850
Pekisko	12,500	6,000	3,000	1,800	...
Pincher	1,500	...	2,000	...	...
Prairie Creek	1,000	18,000	1,400	240	...
Saunders	220,000	21,375	43,000	19,000	...
Total	5,789,893	3,585,532	1,418,151	198,979	13,850

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	6,542	...	...	300	...
Big Valley	...	80,820	...	...	...
Brooks	7,525	...	...	...	...
Carbon	100,354	9,660	11,440	4,050	...
Champion	37,849	2,300	8,450	1,704	20
Drumheller	6,144,046	178,984	8,000	282,845	...
Edmonton	1,417,201	51,199	26,288	69,566	116
Gleichen	41,045	3,031	25,700	1,500	...
Milk River	8,000	1,000	800	...	...
Pembina	15,900	13,500	3,600	12,100	...
Taber	40,000	50,000	1,000	6,300	...
Wetaskiwin	430,700	...	...	4,500	...
Whitecourt	90	...	100	30	...
Group 5:					
Camrose	30,714	15,250	...	150	...
Castor	57,326	17,850	11,480	6,523	600
Pakowki	3,150	460	1,200	460	...
Redcliff	10,000	...	...	...	...
Sheerness	400	3,372	...	950	...
Tofield	10,840	10,000	...	4,960	...
Total	8,361,682	437,426	98,058	395,938	738

PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-BITUMINOUS COAL FIELDS DURING THE YEARS 1949 and 1950

BITUMINOUS

	1949	1950
Portable Electric Lamps, Edison Cap Type	4,027	3,958
Wolfe Flame Type	368	298
Total	4,395	4,256

SUB-BITUMINOUS

Portable Electric Lamps, Edison Cap Type	1,978	1,733
Koehler Flame Type	15	19
Wolfe Flame Type	195	203
Total	2,188	1,955

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:

BITUMINOUS COAL FIELD

Area	Name of Explosive					Total
	Pellet	Monobel	C.X.L.-ite	Cardox	Forcite	
Group 1:						
Cascade	...	55,500	...	...	...	55,500
Nordegg	...	823	...	...	...	823
Group 2:						
Crowsnest	...	66,332	...	7,888	...	74,220
Mountain Park	...	63,850	14,300	...	13,775	91,925
Group 3:						
Coalspur	...	126,411	...	...	73,350	199,761
Lethbridge	2,250	51,120	150	55,750	...	109,270
Pekisko	1,500	1,000	...	...	...	2,500
Pincher	...	250	...	...	...	250
Prairie Creek	...	60	...	...	...	60
Saunders	3,650	7,950	...	...	...	11,600
Total	7,400	373,296	14,450	63,638	87,125	545,909
SUB-BITUMINOUS COAL FIELD						
Group 4:						
Ardley	10,410	1,775	...	...	...	12,185
Big Valley	970	85	...	...	...	1,055
Brooks	11,615	550	3,550	...	...	15,715
Carbon	11,190	800	...	...	...	11,990
Champion	2,510	...	...	...	...	2,510
Drumheller	48,460	99,280	981	255,500	...	404,221
Edmonton	200	42,750	...	...	...	42,950
Gleichen	4,150	...	...	...	...	4,150
Milk River	650	...	...	...	...	650
Pembina	1,802	2,909	...	...	...	4,711
Taber	3,400	100	...	...	...	3,500
Wetaskiwin	350	200	...	...	...	550
Whitecourt	50	40	...	...	...	90
Group 5:						
Camrose	...	6,578	...	...	...	6,578
Castor	18,181	4,374	...	...	...	22,555
Pakowki	...	30	...	...	...	30
Redcliff	2,000	...	...	...	...	2,000
Sheerness	1,382	229	...	...	...	1,611
Tofield	5,646	5,900	2,000	...	4,000	17,546
Westlock	100	635	...	...	...	735
Total	123,066	166,235	6,531	255,500	4,000	555,332

Number of tons of Coal produced per pound of
Explosives used for blasting coal:

BITUMINOUS COAL FIELD

Area	Number of tons of coal mined	Number of pounds of Explosives used	Tons of coal mined per pound of explosive used
Group 1:			
Cascade................	346,339	55,500	6.24
Nordegg................	154,272	823	187.45
Group 2:			
Crowsnest..............	2,043,659	74,220	27.54
Mountain Park..........	982,667	91,925	10.69
Group 3:			
Coalspur...............	794,957	199,761	3.98
Halcourt...............	297	...	...
Lethbridge.............	406,502	109,270	3.72
Morley.................	302	...	...
Pekisko................	3,096	2,500	1.24
Pincher................	734	250	2.94
Prairie Creek..........	297	60	4.95
Saunders...............	59,898	11,600	5.16
Total....................	4,793,020	545,909	8.78

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley.................	34,757	12,185	2.85
Big Valley.............	33,489	1,055	31.74
Brooks.................	86,369	15,715	5.50
Carbon.................	68,529	11,990	5.72
Champion...............	6,372	2,510	2.54
Drumheller.............	1,636,424	404,221	4.05
Edmonton...............	495,636	42,950	11.54
Gleichen...............	15,896	4,150	3.83
Milk River.............	733	650	1.13
Pembina................	197,901	4,711	4.20
Taber..................	136,267	3,500	38.93
Wetaskiwin.............	1,459	550	2.65
Whitecourt.............	850	90	9.44
Group 5:			
Camrose................	96,101	6,578	14.61
Castor.................	218,224	22,555	9.68
Pakowki................	494	30	16.47
Redcliff...............	14,120	2,000	7.06
Rochester..............	261	...	...
Sheerness..............	62,919	1,611	39.06
Slave..................	88	...	...
Tofield................	205,755	17,546	11.73
Westlock...............	12,542	735	17.06
Total....................	3,325,186	555,332	5.99

Estimated number of shots fired for Blasting Coal:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade................	99,537	...	...	99,537
Nordegg................	751	...	...	751
Group 2:				
Crowsnest..............	69,845	...	2,049	71,894
Mountain Park..........	31,391	...	...	31,391
Group 3:				
Coalspur...............	11,072	...	...	11,072
Lethbridge.............	75,007	2,040	16,103	93,150
Pekisko................	900	...	...	900
Pincher................	500	...	...	500
Prairie Creek..........	164	...	...	164
Saunders...............	17,100	...	...	17,100
Total..................	306,267	2,040	18,152	326,459

SUB-BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 4:				
Ardley.................	5,977	1,885	...	7,862
Big Valley.............	1,438	...	...	1,438
Brooks.................	10,645	6,646	...	17,291
Carbon.................	8,453	7,458	...	15,911
Champion...............	600	2,250	...	2,850
Drumheller.............	209,961	22,735	57,000	289,696
Edmonton...............	60,243	...	...	60,243
Gleichen...............	1,500	2,000	...	3,500
Milk River.............	...	1,100	...	1,100
Pembina................	4,302	...	...	4,302
Taber..................	3,695	280	...	3,975
Wetaskiwin.............	180	350	...	530
Whitecourt.............	120	...	...	120
Group 5:				
Camrose................	5,540	303	...	5,843
Castor.................	9,925	4,443	...	14,368
Pakowki................	140	...	...	140
Redcliff...............	...	1,600	...	1,600
Sheerness..............	536	434	...	970
Tofield................	14,701	...	...	14,701
Westlock...............	1,135	...	...	1,135
Total..................	339,091	51,484	57,000	447,575

Number of miss-fire shots recorded in blasting coal in the Province:

BITUMINOUS COAL FIELD

Areas	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade	3	...	...	3
Group 2:				
Crowsnest	3	...	...	3
Group 3:				
Coalspur	1	...	...	1
Lethbridge	...	1	109	110
Pekisko	11	...	...	11
Total	18	1	109	128

SUB-BITUMINOUS COAL FIELD

Areas	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 4:				
Ardley	7	5	...	12
Brooks	2	4	...	6
Carbon	4	19	...	23
Champion	1	...	...	1
Drumheller	27	6	160	193
Edmonton	5	...	...	5
Milk River	...	15	...	15
Pembina	5	...	...	5
Group 5:				
Camrose	3	...	...	3
Castor	14	...	...	14
Tofield	7	...	...	7
Total	75	49	160	284

Quantity of Explosives used in pounds for Blasting Rock in Coal-mines in the Province:

BITUMINOUS COAL FIELD

Area	Pellets	Monobel	C.X.L.-ite	Forcite	Total
Group 1:					
Cascade	...	...	3,650	50	3,700
Nordegg	...	112	...	...	112
Group 2:					
Crowsnest	...	...	12,314	76,148	88,462
Mountain Park	...	6,125	2,597	144,799	153,521
Group 3:					
Coalspur	1,000	...	...	105,090	106,090
Halcourt	...	50	...	...	50
Lethbridge	50	10	275	...	335
Prairie Creek	...	14	...	...	14
Saunders	...	1,250	...	...	1,250
Total	1,050	7,561	18,836	326,087	353,534

SUB-BITUMINOUS COAL FIELD

Area	Pellets	Monobel	C.X.L.-ite	Forcite	Total
Group 4:					
Ardley	2	...	...	...	2
Big Valley	...	...	...	250	250
Carbon	...	50	...	...	50
Champion	...	750	200	280	1,230
Drumheller	...	1,074	9,864	1,016	11,954
Edmonton	...	471	15	...	486
Gleichen	...	275	...	...	275
Milk River	...	50	...	...	50
Pembina	100	...	...	...	100
Taber	...	50	...	...	50
Whitecourt	...	20	...	...	20
Group 5:					
Camrose	...	2	...	...	2
Castor	...	33	24	40	97
Total	102	2,775	10,103	1,586	14,566

Estimated number of shots fired for Blasting Rock in Coal-mines in the Province:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Total
Group 1:			
Cascade	3,349	...	3,349
Nordegg	330	...	330
Group 2:			
Crowsnest	16,867	...	16,867
Mountain Park	18,248	...	18,248
Group 3:			
Coalspur	15,744	...	15,744
Halcourt	75	...	75
Lethbridge	1,700	10	1,710
Prairie Creek	22	...	22
Saunders	1,400	...	1,400
Total	57,735	10	57,745

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley	5	...	5
Big Valley	450	...	450
Carbon	...	100	100
Champion	1,150	675	1,825
Drumheller	29,222	22	29,244
Edmonton	458	...	458
Gleichen	550	...	550
Milk River	50	...	50
Pembina	200	...	200
Taber	38	...	38
Whitecourt	15	...	15
Group 5:			
Camrose	...	4	4
Castor	97	...	97
Total	32,235	801	33,056

Number of miss-fire shots recorded in Blasting Rock in Coal-mines in the Province:

Champion	...	1	1
Crowsnest	10	...	10
Total	10	1	11

ELECTRICITY

The rules for the installation and use of electricity in or about mines, require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used in 97 mines in 1950. A summary of these returns regarding the horse-power of electrical apparatus in use is given below.

Area	No. of Mines using Electricity	Horse-power of electrical apparatus in use		Total Horse-Power	Purchased Power
		Above Ground	Below Ground		
Ardley	1	3	...	3	...
Big Valley	1	19	...	19	16,340
Brooks	1	138	...	138	64,560
Camrose	2	118	41	159	73,700
Carbon	7	162	253	415	87,575
Cascade	2	3,386	331	3,717	4,947,200
Castor	6	325	94	419	52,080
Coalspur	6	2,187	1,120	3,307	...
Crowsnest	7	20,542	4,247	24,789	27,490,440
Drumheller	20	4,726	8,580	13,306	7,989,035
Edmonton	17	1,242	1,688	2,930	1,265,413
Gleichen	3	13	45	58	22,957
Lethbridge	5	2,226	2,279	4,505	3,520,620
Mountain Park	4	4,184	375	4,559	...
Nordegg	1	1,849	203	2,052	4,086,700
Pembina	2	81	...	81	1,500
Prairie Creek	1	13	5	18	...
Redcliff	1	110	60	170	135,000
Saunders	2	157	148	305	351,900
Taber	4	128	38	166	40,960
Tofield	4	330	8	338	272,049
Total	97	41,939	19,515	61,454	50,418,029

COAL-CUTTING MACHINERY

Area	No. of machines operated by:			Tons of coal mined by:	
	Electricity	Compressed Air		Electricity	Compressed Air
		Picks	Mach.		
Brooks	...	...	1	...	699
Camrose	2	...	...	7,900	...
Carbon	7	...	1	29,045	1,038
Cascade	4	50	4	90,115	37,900
Castor	5	...	5	16,732	6,957
Champion	...	...	1	...	642
Coalspur	...	...	45	...	222,872
Corowsnest	5	272	2	21,000	550,684
Drumheller	112	...	...	1,368,435	...
Edmonton	28	...	1	291,402	9,968
Gleichen	2	...	...	4,126	...
Lethbridge	26	...	1	401,936	570
Milk River	...	...	2	...	733
Pembina	...	...	2	...	1,377
Prairie Creek	1	...	...	113	...
Redcliff	2	...	...	12,712	...
Saunders	...	...	10	...	59,898
Taber	1	...	1	5,817	581
Tofield	2	...	...	3,487	...
Total	197	322	76	2,252,820	893,919

ACCIDENTS

Summary table showing Accidents occurring in the Mines from 1906 to 1950 inclusive, reportable under the Coal Mines Regulation Act.

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906.........	1,385,000	10	11	20	138,500	126,909	60,250
1907.........	1,834,745	19	18	68	96,565	101,930	26,981
1908.........	1,845,000	11	38	13	167,727	48,552	141,923
1909.........	2,174,329	9	42	18	241,952	51,769	120,796
1910.........	3,036,757	61a	41	58	49,782	71,067	52,375
1911.........	1,694,564	7	32	45	242,080	52,955	37,658
1912.........	3,446,349	21	38	58	164,111	90,693	59,419
1913..........	4,306,346	28	60	83	152,789	71,772	51,883
1914.........	3,821,739	209b	44	50	18,286	86,857	76,434
1915.........	3,434,891	18	33	33	190,827	104,087	104,087
1916.........	4,648,604	20	51	34	232,430	91,149	136,723
1917.........	4,863,414	24	62	39	202,642	78,442	124,703
1918.........	6,148,620	22	60	77	279,483	102,477	79,860
1919.........	5,022,412	21	56	54	239,162	89,685	93,008
1920.........	6,908,923	29	53	38	238,733	130,371	181,814
1921.........	5,937,195	21	64	25	282,721	92,769	237,488
1922.........	5,976,432	35	38	35	170,755	157,274	170,755
1923.........	6,866,923	22	44	10	312,133	156,066	686,692
1924.........	5,203,713	21	42	40	247,796	123,898	130,093
1925.........	5,883,394	30	59	56	196,113	99,718	105,060
1926.........	6,508,908	39c	67	119	166,398	97,148	54,696
1927.........	6,936,780	26	76	115	266,799	91,273	60,320
1928.........	7,334,179	28	71	122	261,935	103,298	60,166
1929.........	7,147,250	31	69	98	230,556	103,583	72,931
1930.........	5,755,911	11	69	97	523,265	83,419	59,339
1931.........	4,563,309	16	75	73	285,207	60,844	62,511
1932.........	4,867,984	11	61	96	442,544	79,803	50,708
1933.........	4,714,784	6	60	109	785,797	78,580	43,255
1934.........	4,748,848	15	68	70	316,589	69,836	67,840
1935.........	5,462,973	35d	66	113	156,085	82,772	48,352
1936.........	5,696,375	11	79	101	517,852	72,106	56,400
1937.........	5,551,682	20	72	73	277,584	77,107	76,050
1938.........	5,230,015	21e	72	135	249,040	72,639	38,741
1939.........	5,518,105	17	57	180	324,594	96,809	30,657
1940.........	6,205,088	13	79	97	477,314	78,545	63,970
1941.........	6,970,064	48f	78	142	145,209	89,360	49,084
1942.........	7,754,279	17	92	148	456,134	84,285	52,393
1943.........	7,677,982	25g	73	152	307,119	105,178	50,513
1944.........	7,427,433	10	70	125	742,743	106,106	59,419
1945.........	7,801,248	23h	51	168	339,185	154,925	46,436
1946.........	8,824,455	12	76	128	735,371	116,111	68,941
1947.........	8,074,596	15	121	117	538,306	66,732	69,014
1948.........	8,111,013	13	91	93	623,924	89,132	87,215
1949.........	8,616,983	13	89	108	662,076	96,708	79,694
1950.........	8,118,206	20i	86	97	405,910	94,398	83,693
Total......	250,057,800	1,134	2,754	3,730	219,928	90,802	67,093

a. Including thirty-one deaths caused by the Bellevue Explosion.
b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.
c. Including ten deaths caused by the McGillivray Creek Coal & Coke Co. Ltd. Explosion, and two deaths caused by explosion at the Hillcrest Collieries Ltd. at Hillcrest.
d. Including sixteen deaths caused by the explosion at Lethbridge Colls. Ltd. at Coalhurst.
e. Including five deaths caused by the explosion at Hinton Collieries Ltd.
f. Including four deaths caused by an explosion at North American Colls. Ltd. Western Crown Mine, and twenty-nine deaths caused by an explosion at Brazeau Colls. Ltd., Nordegg.
g. Including four deaths caused by an explosion at the Kerralta Coal Co. Ltd., Lethbridge.
h. Including seven deaths caused by an explosion at Lucar Coals Ltd., Luscar.
i. Including five deaths caused by inundation of water at the Cadomin Coal Co. Ltd., Cadomin, and two deaths caused by "bump" at the McGillivray Creek Coal & Coke Co. Ltd., Coleman.

ACCIDENTS DURING 1950, CLASSIFIED ACCORDING TO THE COAL FIELDS IN WHICH THEY OCCURRED

Field	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
Bituminous....................	4,793,020	14	53	62	342,359	90,434	77,307
Sub-bituminous................	3,325,186	6	33	35	554,198	100,763	95,005
Total.........................	8,118,206	20	86	97	405,910	94,398	83,693

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS 1948, 1949 AND 1950

	1948	1949	1950
Hard Hats...................................	5,306	5,980	5,782
Safety Shoes, pairs.........................	3,671	3,905	3,755
Goggles, pairs..............................	573	757	719
Knee Pads, pairs............................	240	401	374

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1950

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000, 000 tons	Per 1,000 men employed	No.	Per 1,000, 000 tons	Per 1,000 men employed	No.	Per 1,000, 000 tons	Per 1,000 men employed	No.	Per 1,000, 000 tons	Per 1,000 men employed
1915...............	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916...............	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917...............	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918...............	6,148,620	8,818	22	3.57	2.51	60	9.95	6.84	77	12.52	7.78	159	25.85	18.12
1919...............	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920...............	6,908,923	9,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	120	17.37	13.81
1921...............	5,927,195	10,018	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922...............	5,976,432	8,747	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923...............	6,866,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924...............	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925...............	5,883,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	145	24.65	16.53
1926...............	6,508,908	8,763	39c	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.57	25.68
1927...............	6,936,780	9,016	26	2.88	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928...............	7,334,179	9,496	28	2.96	2.96	71	9.68	7.48	122	13.63	12.85	221	30.12	23.27
1929...............	7,147,250	9,572	31	3.24	3.24	69	9.65	7.21	98	12.71	10.24	198	27.70	20.30
1930...............	5,755,911	8,889	11	1.91	1.24	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931...............	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932...............	4,867,984	7,837	11	2.26	1.40	61	12.53	7.78	96	19.72	12.23	168	34.51	21.43
1933...............	4,714,784*	8,042	6	1.27	.75	60	12.73	7.46	109	20.99	13.55	175	37.12	21.76
1934...............	4,748,848*	7,863	15	3.14	1.91	68	14.31	8.65	70	14.74	8.90	153	32.21	19.45
1935...............	5,462,973*	7,800	35d	6.40	4.47	66	12.08	8.44	113	20.68	14.44	214	39.17	27.35
1936...............	5,696,375*	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55
1937...............	5,551,682*	7,836	20	3.60	2.55	72	12.97	9.19	73	13.15	9.32	165	29.72	21.06
1938...............	5,230,015*	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	228	43.59	30.76
1939...............	5,518,105*	7,456	17	3.08	2.27	57	10.33	7.64	180	32.60	24.14	254	46.03	34.06
1940...............	6,205,088*	7,416	13	2.10	1.76	79	12.73	10.65	97	15.63	13.08	189	30.46	25.48
1941...............	6,970,064*	7,714	48f	6.80	6.22	78	11.19	10.11	142	20.37	18.41	268	38.73	34.74
1942...............	7,754,279*	8,040	17	2.19	2.11	92	11.86	11.44	148	19.09	18.40	257	33.14	31.95
1943...............	7,677,982*	8,636	25g	3.26	2.87	73	9.51	8.45	152	19.80	17.60	250	32.56	28.95
1944...............	7,427,433*	8,375	10	1.34	1.19	70	9.42	8.35	125	16.83	14.92	205	27.60	24.47
1945...............	7,801,248*	8,309	23h	2.93	2.76	51	6.53	6.13	168	21.53	20.24	242	31.02	29.12
1946...............	8,824,455*	8,583	12	1.36	1.39	76	8.61	8.85	128	14.50	14.91	216	24.47	25.16
1947...............	8,074,596*	8,772	15	1.86	1.71	121	14.98	13.79	117	14.49	13.33	253	31.33	28.84
1948...............	8,111,013*	8,865	13	1.60	1.47	91	11.22	10.27	93	11.47	10.49	197	24.29	22.22
1949...............	8,616,983*	8,682	13	1.51	1.50	89	10.33	10.25	108	12.53	12.44	210	24.37	24.19
1950...............	8,118,206*	7,999	20i	2.46	2.50	86	10.59	10.75	97	11.95	12.15	203	25.01	25.38

c. Including 10 deaths by explosion at McGillivray Creek Coal & Coke Co. Ltd., Coleman.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd., Hinton.

f. Including 4 deaths by explosion at North American Collieries, Ltd., East Coulee, and 29 deaths by explosion at Brazeau Collieries Ltd., Nordegg.

g. Including 4 deaths by explosion at the Kerralta Coal Co., Lethbridge.

h. Including 7 deaths caused by explosion at the Luscar Coals Ltd., Luscar.

* Output does not include coal produced by farmers under permit.

i. Including 5 deaths caused by inundation of water at the Cadomin Coal Co. Ltd., Cadomin, and 2 deaths caused by "bump" at the McGillivray Creek Coal Co. Ltd., Coleman.

Number of tons produced per accident:

BITUMINOUS COAL FIELD

Areas	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Group 1:						
Cascade	346,339	444	346,339	69,268	173,170	43,292
Nordegg	154,272	203	...	51,424	19,284	14,025
Group 2:						
Crowsnest	2,043,659	2,235	340,610	97,317	157,205	51,091
Mountain Park	982,667	581	196,533	491,334	122,833	65,511
Group 3:						
Coalspur	794,957	750	794,957	88,329	44,164	28,391
Halcourt	297	2	...	...	...	...
Lethbridge	406,502	678	406,502	40,650	31,269	16,938
Morley	302	1	...	...	...	...
Pekisko	3,096	6	...	...	...	...
Pincher	734	2	...	...	...	...
Prairie Creek	297	2	...	...	...	...
Saunders	59,898	124	...	19,966	...	19,966
Total	4,793,020	5,028	342,359	90,434	77,307	37,155

SUB-BITUMINOUS COAL FIELD

Areas	Output	Average No. of men employed	Fatal	Serious	Slight	Total
Group 4:						
Ardley	34,757	18	...	...	...	...
Big Valley	33,489	23	...	...	...	...
Brooks	86,369	64	...	...	...	...
Carbon	68,529	96	...	...	...	...
Champion	6,372	12	...	...	...	...
Drumheller	1,636,424	1,863	327,285	56,428	52,788	25,176
Edmonton	495,636	453	495,636	165,212	247,818	82,606
Gleichen	15,896	38	...	...	...	...
Milk River	733	2	...	...	...	...
Pembina	197,901	73	...	...	...	...
Taber	136,267	55	...	...	...	...
Wetaskiwin	1,459	3	...	...	...	...
Whitecourt	850	2	...	...	...	...
Group 5:						
Camrose	96,101	53	...	...	...	...
Castor	218,224	98	...	...	109,112	109,112
Pakowki	494	2	...	...	...	...
Redcliff	14,120	12	...	...	...	...
Rochester	261	1	...	...	...	...
Sheerness	62,919	25	...	...	...	...
Slave	88	1	...	...	...	...
Tofield	205,755	67	...	...	...	...
Westlock	12,542	10	...	12,542	...	12,542
Total	3,325,186	2,971	554,198	100,763	95,005	44,935

SUMMARY

Areas	Output	Average No. of men employed	Fatal	Serious	Slight	Total
Bituminous	4,793,020	5,028	342,359	90,434	77,307	37,155
Sub-bituminous	3,325,186	2,971	554,198	100,763	95,005	44,935
Total	8,118,206	7,999	405,910	94,398	83,693	39,991

Classification of Accidents according to output of mines which produced during the year 1950:

Accidents	Under 1,000 tons	1,000 to 5,000 tons	5,000 to 10,000 tons	10,000 to 50,000 tons	50,000 to 100,000 tons	100,000 to 150,000 tons	150,000 to 200,000 tons	200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal.........	...	...	1	...	3	...	5	2	9	20
Serious.......	...	...	1	6	13	9	31	15	11	86
Slight........	...	1	1	14	5	18	24	19	15	97
Total.........	...	1	3	20	21	27	60	36	35	203

Tons of coal produced per accident:

Fatal.........	...	...	110,524	...	277,434	...	313,849	388,410	293,169	405,910
Serious.......	...	...	110,524	137,461	64,023	134,666	50,621	51,788	239,866	94,398
Slight........	...	126,118	110,524	58,912	166,461	67,333	65,385	40,885	175,901	83,693
Total.........	...	126,118	36,841	41,238	39,633	44,889	26,154	21,578	75,386	39,991

FATAL ACCIDENTS

Nicholas Funduk, loader, 49, on February 13th, at the mine operated by the Lethbridge Coal Co. Ltd., Shaughnessy. Rock fell from the roof of Room 17, 16 Butt, 1 Face, 1st S.W., and fractured his neck, which resulted in death.

Jack Davies, Assistant pit boss, 54, on February 22nd, at the mine operated by the West Canadian Collieries Ltd., Blairmore. He was getting into the car of riding trip, in No. 5 Entry, when the trip moved and threw him off balance and he fell off the car and was caught by the moving trip, causing fractured right ankle, dislocated left hip, dislocated right shoulder and fractured ribs, which resulted in death.

Louis Grenier, pitman, 50, on May 26th, at the mine operated by the Coal Valley Mining Co. Ltd., Coal Valley. He was overhauling electric shovel when he came in contact with collector rings, receiving 2300 volt shock, causing fatal injuries.

J. P. Morris, miner, 66, on June 14th, at the mine operated by the Cadomin Coal Co. Ltd., Cadomin. Heavy cave in 4 Back Angle pillars, west side of No. 1 Panel, accompanied by excessive water, resulting in fatal injuries.

Michael Kapuscinski, miner, 53, on June 14th, at the mine operated by the Cadomin Coal Co. Ltd., Cadomin. Heavy cave in 4 Back Angle pillars, west side of No. 1 Panel, accompanied by excessive water resulting in fatal injuries.

Rade Kasanovich, miner, 62, on June 14th, at the mine operated by the Cadomin Coal Co. Ltd., Cadomin. Heavy cave in 4 Back Angle pillars, west side of No. 1 Panel, accompanied by excessive water, resulting in fatal injuries.

Steve Tomlenovich, miner, 55, on June 14th, at the mine operated by the Cadomin Coal Co. Ltd., Cadomin. Heavy cave in 4 Back Angle pillars, west side of No. 1 Panel, accompanied by excessive water, resulting in fatal injuries.

Roy Carr, fireboss, 39, on June 14th, at the mine operated by the Cadomin Coal Co. Ltd., Cadomin. Heavy cave in 4 Back Angle pillars, west side of No. 1 Panel, accompanied by excessive water, resulting in fatal injuries.

John Taborski, miner, 56, on July 10th, at the mine operated by the West Canadian Collieries Ltd., Bellevue. Cap rock fell on him in 8½ Split, No. 4 Crosscut pitch off 141, No. 8 Level, causing multiple fractured pelvis and internal injuries, which resulted in death.

Carl G. Hardy, miner, 36, on September 26th, at the mine operated by the International Coal & Coke Co. Ltd., Coleman. He was timbering jump in 211 "A" Level York Creek, when jump fell away and fell on top of him, squeezing him between jump and floor, causing fatal injuries.

Albert Rhodes, miner, 62, on October 11th, at the mine operated by the West Canadian Collieries Ltd., Bellevue. Cave of rock buried him in No. 7 Level stumps, No. 38½ split pillar, causing fatal injuries.

Steve Lengyel, timberman, 55, on October 31st, at the mine operated by the Rosedale Collieries Ltd., Aerial. Explosion of gas in 7 West Entry, which resulted in fatal injuries.

Alex Danyi, miner, 48, on November 2nd, at the mine operated by the Rosedale Collieries Ltd., Aerial. Cave-in in 7 West Entry, which resulted in fatal injuries.

Sylvester Latvala, miner, 54, on November 14th, at the mine operated by the Canmore Mines Ltd., Canmore. He was standing on the slope at 6 Crosscut, 84 Slope, No. 4 Seam, when a passing trip hit him, causing fractured skull, ribs and left hip, punctured right lung, bruises and lacerations, the effects from which he died on November 19th.

John Sikora, Jr., miner, 24, on November 30th, at the mine operated by the McGillivray Creek Coal & Coke Co. Ltd., Coleman. He was working in 75 Room, 5 Level, when rock fell on him, causing fatal injuries.

George Reapos, miner, 48, on November 30th, at the mine operated by the McGillivray Creek Coal & Coke Co. Ltd., Coleman. He was working in 75 Room, 5 Level, when rock fell on him, causing fatal injuries.

Allan Patterson, tipple boss, 65, on December 6th, at the mine operated by the Rosedale Collieries Ltd., Aerial. He was caught in shaft drive at tipple, causing injuries which resulted in death.

Duncan McKenzie, timberman, 56, on December 11th, at the mine operated by the Century Coals Ltd., (Atlas Mine), Drumheller. He was moving a rock he had barred down from the roof of 12 Room, 6 Butt, 15 West, when a second rock came down and hit him, causing crushed right ribs, which resulted in death.

James McCarron, miner, 68, on December 19th, at the mine operated by the Murray Collieries Ltd., Drumheller. He was picking coal at the face of 11 Room, 5 Entry, 5 South, when some rock fell from the roof and struck his shoulders, resulting in 1st to 11th ribs fractured, left lung collapsed, left scapula and clavicle fractured, resulting in death on December 22nd.

John Sapelak, miner, 58, on December 29th, at the mine operated by the Blue Point Mine, South Edmonton. He was working in back entry pillars, when a large slab of rock fell from the roof, striking him, causing internal injuries which resulted in death.

In addition to the above, the following death occured in a mine, which was not entered as a mine fatality:

John Sogan, miner, 51, on July 27th, at the mine operated by the International Coal & Coke Co. Ltd., Coleman. He died due to heart failure in 22½ E. Level South.

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1950:

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January	...	1	...	1	...	7	6	13	14
February	...	...	1	1	2	4	14	20	21
March	...	...	5	5	...	3	19	22	27
April	...	2	2	4	...	5	4	9	13
May	1	2	1	4	...	7	8	15	19
June	...	2	...	2	5	5	5	15	17
July	...	...	2	2	1	3	2	6	8
August	...	2	1	3	...	3	...	3	6
September	...	5	1	6	1	10	6	17	23
October	...	1	3	4	2	6	6	14	18
November	...	3	2	5	4	5	4	13	18
December	1	...	1	2	3	10	4	17	19
Total	2	18	19	39	18	68	78	164	203

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND UNDER GROUND DURING THE YEAR 1950:

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Box-car Handling	...	1	...	1	...	...	...	...	1
Bucking coal	...	...	1	1	...	...	...	...	1
Chute loading	...	2	...	2	...	...	1	1	3
Coal-cutting machinery	...	...	...	...	...	1	2	3	3
Coal-loading machinery	...	...	...	...	...	4	4	8	8
Coupling cars	...	...	...	...	...	2	2	4	4
Electricity	1	...	...	1	...	...	2	2	3
Explosives	...	...	...	...	...	2	...	2	2
Fall of coal	...	...	...	...	3	10	13	26	26
Fall of rock	...	...	...	...	7	18	15	40	40
Haulage	...	3	...	3	1	17	9	27	30
Ignition of gas	...	...	...	...	1	2	...	3	3
Loading coal	...	...	1	1	...	2	4	6	7
Miscellaneous	...	6	16	22	6	4	21	31	53
Spragging cars	...	...	...	...	...	3	1	4	4
Strip Mining	...	3	1	4	...	...	...	...	4
Timbering	...	...	...	...	...	3	4	7	7
Tipple machinery	1	3	...	4	...	...	...	...	4
Total	2	18	19	39	18	68	78	164	203

Accidents occurring in the Province above and below ground for the year 1950, classified according to the area in which they occurred:

BITUMINOUS

Areas	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cascade	...	1	1	2	1	4	1	6	8
Nordegg	...	...	1	1	...	3	7	10	11
Crowsnest	...	9	1	10	6	12	12	30	40
Mountain Park	...	2	5	7	5	...	3	8	15
Coalspur	1	2	6	9	...	7	12	19	28
Lethbridge	...	1	1	2	1	9	12	22	24
Saunders	...	...	...	...	...	3	...	3	3
Total	1	15	15	31	13	38	47	98	129

SUB-BITUMINOUS

Drumheller	1	1	4	6	4	28	27	59	65
Edmonton	...	1	...	1	1	2	2	5	6
Castor	...	...	...	...	...	...	2	2	2
Westlock	...	1	...	1	...	...	...	...	1
Total	1	3	4	8	5	30	31	66	74

Classification of Accidents according to the Coal Fields in which they Occurred:

BITUMINOUS

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Rope Haulage, hit by moving trip on slope	...	...	...	...	1	...	...	1	1
Rope Haulage, back lash of slack cable hit his ankle	...	...	...	...	...	1	...	1	1
Rope Haulage, fell under derailed car	...	1	...	1	...	...	...	...	1
Horse Haulage, squeezed between horse and car	...	...	...	...	...	2	...	2	2
Horse Haulage, frightened horse knocked him down	...	1	...	1	...	...	...	...	1
Horse Haulage, caught leg in tail chain	...	...	...	...	...	...	1	1	1
Horse Haulage, hurt foot while getting off trip	...	...	...	...	...	...	1	1	1
Horse Haulage, squeezed between door and car	...	...	...	...	...	1	...	1	1
Horse Haulage, squeezed between timber and car	...	...	...	...	...	2	...	2	2
Hand Haulage, squeezed between cars	...	...	...	...	...	1	...	1	1
Hand Haulage, squeezed between car and roof	...	...	...	...	...	1	1	2	2
Locomotive Haulage, squeezed between motor and post	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between locomotive and car	...	...	...	...	...	1	...	1	1
Locomotive Haulage, burns on arm caused by short circuit	...	1	...	1	...	...	...	...	1
Fall of rock in entry	...	...	...	...	...	1	1	2	2
Fall of rock in room	...	...	...	...	3	8	4	15	15
Fall of rock in pillar	...	...	...	...	1	1	1	3	3
Fall of coal in entry	...	...	...	...	...	1	2	3	3
Fall of coal in room	...	...	...	...	2	4	4	10	10
Fall of coal in pillar	...	...	...	...	...	1	...	1	1
Loading Coal, slipped and fell	...	...	...	...	...	...	1	1	1
Loading Coal, squeezed finger between lumps of coal	...	...	1	1	...	...	1	1	2
Loading Coal, struck by piece of coal	...	...	...	...	...	...	1	1	1
Strip Mining, euclid he was driving ran off the road	...	1	...	1	...	...	...	...	1
Strip Mining, euclid ran over his foot	...	1	...	1	...	...	...	...	1
Strip Mining, caught hand in fan of lighting plant	...	...	1	1	...	...	...	...	1
Strip Mining, foot squeezed between loader and bank	...	1	...	1	...	...	...	...	1
Box-car Handling, caught by moving box car	...	1	...	1	...	...	...	...	1

BITUMINOUS (Cont'd)

Timbering, post fell on his leg	...	...	...	...	...	1	...	1	1
Timbering, prop fell on his arm	...	...	...	...	...	1	2	3	3
Timbering, axe slipped and cut off his thumb	...	...	...	...	...	1	...	1	1
Timbering, partner's axe slipped and hit him	...	...	...	...	...	...	1	1	1
Bucking Coal, hand squeezed between two lumps of coal	...	...	1	1	...	...	...	...	1
Tipple Machinery, stepped into drag conveyor	...	1	...	1	...	...	...	...	1
Coal-loading Machinery, wheel of loader passed over his foot	...	...	...	...	...	...	1	1	1
Explosives, hit by flying cardox shell	...	...	...	...	...	2	...	2	2
Coupling cars, squeezed between cars	...	...	...	...	...	2	...	2	2
Spragging cars, slipped and fell	...	...	...	...	...	...	1	1	1
Spragging cars, caught hand between car and set	...	...	...	...	...	1	...	1	1
Spragging cars, sprag flipped and hit his knee	...	...	...	...	...	1	...	1	1
Chute Loading, hit by piece of flying coal	...	2	...	2	...	...	1	1	3
Electricity, shovel he was carrying touched trolley wire	...	...	...	...	...	...	1	1	1
Electricity, accidental contact with collector rings	1	...	...	1	...	...	...	...	1
Electricity, flash burn when drill cable shorted	...	...	...	...	...	...	1	1	1
Miscellaneous, slipped and fell	...	3	5	8	...	2	12	14	22
Miscellaneous, timber rolled on him	...	1	...	1	...	...	2	2	3
Miscellaneous, timber rolled on his arm	...	...	...	...	...	...	1	1	1
Miscellaneous, hit by post sliding down chute	...	...	...	...	...	...	1	1	1
Miscellaneous, tractor he was operating ran off road	...	1	...	1	...	...	...	...	1
Miscellaneous, hand caught in speed drill	...	...	...	...	...	1	2	3	3
Miscellaneous, fell off mantrip car	...	...	...	...	1	...	...	1	1
Miscellaneous, lump of coal from truck fell on his leg	...	...	1	1	...	...	...	...	1
Miscellaneous, bar hit him on foot	...	...	1	1	...	...	...	...	1
Miscellaneous, inundation of water and mushy coal	...	...	...	...	5	...	...	5	5
Miscellaneous, finger caught between rope and drum of tugger	...	...	1	1	...	...	1	1	2
Miscellaneous, piece of iron fell on his hand	...	...	1	1	...	...	...	...	1
Miscellaneous, jabbed foot with timber hook	...	...	...	...	...	...	1	1	1
Miscellaneous, wrench slipped and he fell against a slab	...	...	...	...	...	...	1	1	1
Miscellaneous, unloading rails, pinched his finger	...	...	1	1	...	...	...	...	1
Miscellaneous, screw jack fell on his foot	...	...	1	1	...	...	...	...	1
Miscellaneous, prying with bar, bar slipped and hit him	...	...	1	1	...	...	...	...	1
Total	1	15	15	31	13	38	47	98	129

SUB-BITUMINOUS

Rope Haulage, hit finger while taking rope off car	...	...	...	...	...	...	1	1	1
Rope Haulage, stepped in loop of cable	...	...	...	...	...	1	...	1	1
Horse Haulage, car wheel passed over his foot	...	...	...	...	...	...	1	1	1
Horse Haulage, squeezed between car and rib	...	...	...	...	...	1	...	1	1
Horse Haulage, tail chain hit his foot	...	...	...	...	...	...	1	1	1
Hand Haulage, squeezed between cars	...	...	...	...	...	...	1	1	1
Hand Haulage, foot caught between car and tie	...	...	...	...	...	...	1	1	1
Hand Haulage, fell in front of car	...	...	...	...	...	1	...	1	1
Hand Haulage, squeezed between car and rib	...	...	...	...	...	1	...	1	1
Locomotive Haulage, fell in front of trip	...	...	...	...	...	1	...	1	1
Locomotive Haulage, foot caught between bumpers of cars	...	...	...	...	...	...	1	1	1
Locomotive Haulage, squeezed between car and timber	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between locomotive and roof	...	...	...	...	...	1	...	1	1
Fall of rock in entry	...	...	...	...	1	4	3	8	8
Fall of rock in room	...	...	...	...	2	4	6	12	12
Fall of coal in entry	...	...	...	...	...	1	1	2	2
Fall of coal in room	...	...	...	...	...	3	6	9	9
Fall of coal in pillar	...	...	...	...	1	...	...	1	1
Loading Coal, car moved and caught his leg	...	...	...	...	...	2	...	2	2
Loading Coal, piece fell on his foot	...	...	...	...	...	...	1	1	1
Timbering, hit his thumb with axe	...	...	...	...	...	...	1	1	1
Coal-cutting Machinery, jack fell on his hand	...	...	...	...	...	...	1	1	1
Coal-cutting Machinery, hit his leg with bar	...	...	...	...	...	1	...	1	1
Coal-cutting Machinery, caught hand in chain lever	...	...	...	...	...	...	1	1	1
Tipple Machinery, caught in conveyor chain	...	1	...	1	...	...	...	...	1
Tipple Machinery, caught in drive shaft	1	...	...	1	...	...	...	...	1
Tipple Machinery, hand caught between conveyor and pulley	...	1	...	1	...	...	...	...	1
Coal-loading Machinery, caught foot in swivel pan of duckbill	...	...	...	...	...	1	...	1	1
Coal-loading Machinery, joy loader ran over his foot	...	...	...	...	...	1	...	1	1
Coal-loading Machinery, machine jack fell on his foot	...	...	...	...	...	1	1	2	2
Coal-loading Machinery, caught finger between two pans	...	...	...	...	...	...	1	1	1
Coal-loading Machinery, erecting jack and hit his finger	...	...	...	...	...	...	1	1	1
Coal-loading Machinery, squeezed between conveyor and roof	...	...	...	...	...	1	...	1	1
Coupling Cars, caught finger in coupling	...	...	...	...	...	...	1	1	1
Coupling Cars, fell against car	...	...	...	...	...	...	1	1	1
Spragging Cars, squeezed between car and prop	...	...	...	...	...	1	...	1	1
Ignition of gas	...	...	...	...	1	2	...	3	3
Miscellaneous, slipped and fell	...	...	2	2	...	...	...	...	2
Miscellaneous, piece of iron fell on foot	...	...	1	1	...	...	...	...	1
Miscellaneous, bar struck him	...	...	...	...	...	1	...	1	1
Miscellaneous, squeezed finger between bar and tipple deck	...	...	1	1	...	...	...	...	1
Miscellaneous, squeezed between bulldozer and garage	...	1	...	1	...	...	...	...	1
Total	1	3	4	8	5	30	31	66	74

SUMMARY

Bituminous	1	15	15	31	13	38	47	98	129
Sub-bituminous	1	3	4	8	5	30	31	66	74
Total	2	18	19	39	18	68	78	164	203

Accidents during 1950, classified according to the
Mines in which they occurred:

BITUMINOUS

Name of Operator	Area	Above Ground				Below Ground				Total Above and Below Ground
		Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Alexo Coal Co. Ltd	Saunders	...	...	...	...	...	1	...	1	1
Bighorn & Saunders Creek Collieries Ltd	Saunders	...	...	...	...	...	2	...	2	2
Brazeau Collieries Ltd	Nordegg	...	...	1	1	...	3	7	10	11
Cadomin Coal Co. Ltd	Mountain Park	...	1	3	4	5	...	2	7	11
Canmore Mines Ltd	Cascade	...	...	1	1	1	2	1	4	5
Chester, J.C	Lethbridge	...	...	...	...	...	...	3	3	3
Coal Valley Mining Co. Ltd	Coalspur	1	...	...	1	...	...	...	...	1
Foothills Collieries Ltd	Coalspur	...	...	...	...	...	1	2	3	3
Hamilton, J.J	Lethbridge	...	...	1	1	...	...	...	...	1
Hillcrest Mohawk Collieries Ltd. (133)	Crowsnest	...	...	...	...	...	1	1	2	2
Hillcrest Mohawk Collieries Ltd. (1695)	Crowsnest	...	...	1	1	...	...	...	...	1
International Coal & Coke Co. Ltd	Crowsnest	...	...	...	...	1	2	...	3	3
Kananaskis Exploration & Development Co. Ltd	Cascade	...	1	...	1	...	2	...	2	3
Lethbridge Collieries Ltd. (1263)	Lethbridge	...	1	...	1	1	4	3	8	9
Lethbridge Collieries Ltd. (1464)	Lethbridge	...	...	...	...	...	5	6	11	11
Luscar Coals Ltd	Mountain Park	...	...	2	2	...	...	1	1	3
Mountain Park Coals Ltd	Mountain Park	...	1	...	1	...	...	...	...	1
McGillivray Creek Coal & Coke Co. Ltd	Crowsnest	...	3	...	3	2	5	3	10	13
McLeod River Hard Coal Co. (1941) Ltd	Coalspur	...	2	6	8	...	6	10	16	24
West Canadian Collieries Ltd. (87)	Crowsnest	...	1	...	1	2	1	2	5	6
West Canadian Collieries Ltd. (396)	Crowsnest	...	3	...	3	1	2	3	6	9
West Canadian Collieries Ltd. (1584)	Crowsnest	...	2	...	2	...	1	3	4	6
Total		1	15	15	31	13	38	47	98	129

SUB-BITUMINOUS

Blue Point Mine	Edmonton	...	...	...	...	1	...	...	1	1
Brilliant Coal Co. Ltd	Drumheller	...	...	...	...	...	1	3	4	4
Century Coals Ltd. (422)	Drumheller	...	...	...	...	...	3	4	7	7
Century Coals Ltd. (1484)	Drumheller	...	...	...	...	1	5	1	7	7
Great West Coal Co. Ltd	Edmonton	...	...	...	...	...	2	1	3	3
J.B. Starkey Coal Co. Ltd	Edmonton	...	...	...	...	...	...	1	1	1
Komperdo and Partners	Castor	...	...	...	...	...	...	1	1	1
Maple Leaf Coal Co. Ltd	Drumheller	...	...	1	1	...	...	5	5	6
Midland Coal Mining Co. Ltd	Drumheller	...	...	...	...	...	1	...	1	1
Monarch Coal Mining Co. Ltd	Drumheller	...	...	1	1	...	3	2	5	6
Murray Collieries Ltd	Drumheller	...	...	...	...	1	2	...	3	3
Newcastle Collieries Ltd	Drumheller	...	...	...	...	...	1	3	4	4
North Point Coal Co. Ltd	Westlock	...	1	...	1	...	...	...	...	1
Red Deer Valley Coal Co. Ltd	Drumheller	...	1	...	1	...	4	...	4	5
Remillard, O.V.	Castor	...	...	...	...	...	...	1	1	1
Rosedale Collieries Ltd. (346)	Drumheller	...	...	...	...	...	1	...	1	1
Rosedale Collieries Ltd. (436)	Drumheller	1	...	...	1	2	3	...	5	6
Saskatchewan Federated Co-operatives Ltd. (1299)	Drumheller	...	...	1	1	...	2	...	2	3
Saskatchewan Federated Co-operatives Ltd. (1421)	Drumheller	...	...	1	1	...	2	9	11	12
Sundance Mines Ltd	Edmonton	...	1	...	1	...	...	...	...	1
Total	...	1	3	4	8	5	30	31	66	74

SUMMARY

Bituminous	...	1	15	15	31	13	38	47	98	129
Sub-bituminous	...	1	3	4	8	5	30	31	66	74
Total	...	2	18	19	39	18	68	78	164	203

LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL MINES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1950.

Mine in which Contravention was committed	Description of Defendent	Offence Charged	Result of Proceedings	Penalty	Costs
Foothills Collieries Ltd	Fireboss	Being an Examiner did fail to withdraw all persons who were exposed to danger	Convicted	Fined $50.00	$11.00
Arcadia Coal Mines Ltd	Agent	Did fail to send or cause to be sent to the Director of Mines on or before the 15th day of each month a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month	Convicted	Fined $30.00	$ 2.50
McGillivray Creek Coal & Coke Co. Ltd	Timberpacker	Did have in his possession one lucifer match	Convicted	Fined $2.00	$ 4.50
East Carbon Coal Co	Mine Manager	Did fail to send or cause to be sent to the Director of Mines on or before the 15th day of each month a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month	Convicted	Fined $20.00	$ 5.35
Joe Hronek	Mine Manager	Did fail to send or cause to be sent to the Director of Mines on or before the 15th day of each month a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month	Convicted	Fined $20.00	$ 3.25
International Coal & Coke Co. Ltd	Miner	Did have in his possession one lucifer match	Convicted	Fined $2.00	$ 2.50
International Coal & Coke Co. Ltd	Miner	Did have in his possession one lucifer match	Convicted	Fined $2.00	$ 2.50

Beaver Mines Coal Co.	Fireboss	Did leave wires attached to battery when about to shoot another shot in contravention of the Explosives Regulations	Convicted	Fined $3.00	$ 4.50
Beaver Mines Coal Co.	Fireboss	Did not inspect working place after blasting in contravention of the Explosives Regulations	Convicted	Fined $3.00	......
Beaver Mines Coal Co.	Fireboss	Did fire shots on a face not properly prepared in contravention of the Explosives Regulations	Convicted	Fined $3.00	$ 2.50
Beaver Mines Coal Co.	Fireboss	Did have more than two shots tamped up in contravention of the Explosives Regulations	Convicted	Fined $3.00	$ 2.50
Beaver Mines Coal Co.	Fireboss	Did permit an unauthorized person to couple up a shot in contravention of the Explosives Regulations	Convicted	Fined $3.00	$ 2.50
Rosedale Collieries Ltd	Driver	Being a person in or about a mine did commit an act likely to cause danger to the mine or to himself or to any person	Convicted	Fined $20.00	$ 6.50
Allyn Mann Construction Co.	Owner	Did fail to appoint a certified person as required by the Coal Mines Regulation Act to have direct charge of the mine while same was being worked	Convicted	Fined $10.00	$ 9.00
Cadomin Coal Co. Ltd	Shovel Operator	Did operate a mechanical shovel while gears were not securely cased or guarded	Convicted	Fined $25.00	$ 4.00
Cadomin Coal Co. Ltd	Mine Manager	Did allow a machine to operate while gears were not securely cased or guarded	Convicted	Fined $25.00	$ 4.00
Hinton Hard Coal Co. Ltd	Owner	Did fail or cause to be sent to the Director of Mines on or before the 15th day of each month a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month	Convicted	Fined $25.00	$ 4.00

King Coal & Lumber Ltd.	Agent	Did fail to send or caase to be sent to the Director of Mines on or before the 15th day of each month a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month	Convicted	Fined $25.00	$ 3.00
McLeod River Hard Coal Co. (1941) Ltd.	Machineman's Helper	Did ride on trolley locomotive without having permission to do so	Convicted	Fined $15.00	$ 5.50
McLeod River Hard Coal Co. (1941) Ltd.	Machineman	Did ride on locomotive without having permission to do so	Convicted	Fined $15.00	$ 5.50
Murray Collieries Ltd.	Outside Foreman	Did order a person to grease the rollers under a belt which was moving causing him to commit an act likely to cause danger to the mine or to himself or to any person	Convicted	Fined $25.00	$ 3.00
Murray Collieries Ltd.	Surface Laborer	Did being a person in or about a mine commit an act likely to cause danger to the mine or to himself or to any person by greasing rollers under a belt while it was in motion	Convicted	Fined $5.00	$ 3.00
West Canadian Collieries Ltd.	Examiner	Did fail to make an inspection of a working place	Convicted	Fined $20.00	$ 2.50
West Canadian Collieries Ltd.	Examiner	Did fail to make an inspection of a working place	Convicted	Fined $20.00	$ 4.50

NUMBER OF MINES OPENED, RE-OPENED, CLOSED AND ABANDONED ACCORDING TO AREAS AND KIND OF COAL, DURING THE YEAR

Director of Mines - John Crawford, Provincial Building,
Edmonton, Alberta. Telephone 22698

Assistant to the Director of Mines - J.A. Dutton, Provincial Building,
Edmonton, Alberta. Telephone 22889

Electrical Inspector of Mines - Burton Tait, Provincial Building,
Edmonton, Alberta. Telephone 28614

Inspection District	Area	Area No.	Character of Coal	No. of Mines in operation at Dec. 31/50.	Mines opened during the year.	Mines re-opened during the year.	Mines closed during the year.	Mines abandoned during the year.	Name and Address of District and Assistant District Inspector of Mines
Edmonton.......	Camrose.......	5	Sub-bituminous	5	...	4	3	1	J. Thomson, Provincial Building. Edmonton, Alberta. Telephone 28612
	Castor........	8	Sub-bituminous	18	3	10	14	4	
	Edmonton......	15	Sub-bituminous	22	...	7	9	2	
	Halcourt......	18	Bituminous	1	...	2	1	...	
	Pembina.......	31	Sub-bituminous	9	2	6	5	...	
	Rochester....	35	Sub-bituminous	...	...	...	1	...	
	Slave........	38	Sub-bituminous	...	...	...	1	...	
	Tofield......	42	Sub-bituminous	5	...	1	1	...	
	Westlock.....	45	Sub-bituminous	3	...	1	1	...	
	Wetaskiwin...	46	Sub-bituminous	1	...	1	1	...	
	Whitecourt...	47	Sub-bituminous	1	...	1	1	...	
	No Area......	..	Bituminous	...	..1	...	...	...	
Calgary........	Cascade......	7	Bituminous	3	...	...	...	...	Alex Muir, New Courthouse Bldg. Calgary, Alberta. Telephone 28584
	Highwood.....	19	Bituminous	...	...	...	...	...	
	Morley.......	23	Bituminous	...	...	...	...	...	
	Nordegg......	25	Bituminous	...	...	...	...	...	
	Pekisko......	30	Bituminous	1	...	...	...	...	
	Saunders.....	36	Bituminous	2	...	1	1	...	
Edson........	Coalspur.....	11	Bituminous	6	...	1	1	1	A.I. Lister, Edson, Alberta. Telephone 35
	Mountain Park	24	Bituminous	2	...	1	2	1	
	Prairie Creek	33	Bituminous	1	1	1	2	1	
		12							
Blairmore....	Crowsnest....	13	Bituminous	7	1	...	...	...	J.D.B. Brown, Philip Melson, Blairmore, Alberta. Telephone 2160
	Pincher......	32	Bituminous	1	...	...	...	...	
Drumheller....	Drumheller....	14	Sub-bituminous	12	...	1	4	3	
	Gleichen.....	17	Sub-bituminous	4	...	...	...	...	James Horne, Drumheller, Alberta. Telephone 2413
Stettler.......	Ardley........	1	Sub-bituminous	7	1	8	6	2	R. Shaw, Courthouse. Stettler, Alberta. Telephone 376
	Big Valley...	2	Sub-bituminous	3	...	2	1	...	
	Carbon.......	6	Sub-bituminous	11	1	2	2	1	
	Castor.......	8	Sub-bituminous	7	...	6	4	2	
	Drumheller...	14	Sub-bituminous	7	...	2	2	...	
	Sheerness....	38	Sub-bituminous	7	...	7	5	1	
Lethbridge.....	Brooks.......	3	Sub-bituminous	2	...	1	2	...	E.H. Morgan, Lethbridge, Alberta. Telephone 3325
	Champion.....	9	Sub-bituminous	4	1	...	1	...	
	Lethbridge...	20	Bituminous	8	...	..2	2	...	
	Milk River...	22	Sub-bituminous	1	...	...	...	...	
	Pakowki......	28	Sub-bituminous	1	...	1	1	...	
	Redcliff.....	34	Sub-bituminous	1	...	1	1	...	
	Taber.......	41	Sub-bituminous	4	...	3	3	...	
	Total........			167	11	73	78	19	

BOARD OF EXAMINERS

The Provincial Board of Examiners during the year 1950, consisted of the following:

As representing:

(a) The Mine Inspectorate: John Crawford, Director of Mines.
(b) Managers: A. Crawford and William Wilson.
(c) Working Miners: Andrew Campbell and D. J. Holly.
Secretary: Muriel Roberts.

Examinations during the year were held as follows:

For Third Class at the following centres: Blairmore, Lethbridge, Edmonton, Cadomin, Drumheller and Nordegg, on May 30th.

For First and Second Class at the following centres: Calgary and Edmonton, on June 6th, 7th and 8th.

For Mine Surveyor at the following centre: Calgary, on June 8th.

For Mine Electricians at the following centres: Blairmore, Lethbridge, Edmonton, Cadomin, Drumheller and Nordegg, on May 30th.

Fifteen candidates presented themselves for examination for first Class Certificates, of whom six were successful.

Thirteen candidates presented themselves for examination for Second Class Certificates, of whom six were successful.

Forty-four candidates presented themselves for examination for Third Class Certificates, of whom twenty-six were successful.

Eight candidates presented themselves for examination for Mine Surveyors' Certificates, of whom six were successful.

Twenty-one candidates presented themselves for examination for Mine Electricians' Certificates, thirteen for First Class of whom seven were successful and eight for Second Class, of whom five were successful.

The list following herewith gives the names of successful candidates for all classes of certificates during 1950.

LIST OF NAMES OF HOLDERS OF FIRST, SECOND AND THIRD CLASS, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES.

Issued by the Government of the Province of Alberta during the year 1950

FIRST CLASS

Name	Address	Cert. No.	Date of Issue
Blasetti, Angelo	Nordegg	7	19-7-50
Erikson, Robert G.	Mercoal	6	19-7-50
Hooyberg, Adrian	Blairmore	8	19-7-50
Kubin, John J.	Luscar	9	19-7-50
Peta, Julius	Lethbridge	10	19-7-50
Riva, Walter J.	Canmore	5	19-7-50

SECOND CLASS

Name	Address	Cert. No.	Date of Issue
Currie, Campbell	Drumheller	13	19-7-50
Carruthers, Edward M.	Blairmore	14	19-7-50
Douglas, Horace L.	Cadomin	12	19-7-50
Devernichuk, Mike	Lethbridge	16	19-7-50
Morris, John D.	Hillcrest	17	19-7-50
Walter, Ian M.	Blairmore	15	19-7-50

THIRD CLASS

	Address	Cert. No.	Date of Issue
Biro, John	East Coulee	55	19-7-50
Carruthers, Edward M.	Blairmore	43	19-7-50
Czirjak, Andrew	Shaughnessy	52	19-7-50
Forward, Hadyn	Lethbridge	58	19-7-50
Fraser, William D.	Coleman	53	19-7-50
Jahelka, Reginald	Nordegg	59	19-7-50
Jensen, Ingvard M.	Shaughnessy	60	19-7-50
Jones, Jasper R.	Coleman	49	19-7-50
Korner, Robert T.	Coleman	45	19-7-50
Kryskow, Wilfred	Morinville	57	19-7-50
Kubica, Alois	Coleman	40	19-7-50
Lawrence, Archibald H.	Coleman	47	19-7-50
Looten, Hentry J.	Newcastle	44	19-7-50
Martell, John	Lethbridge (Duplicate)	65	19-7-50
Mills, John R.	Heisler	61	19-7-50
McLaren, Ian	Cadomin (Duplicate)	38	19-6-50
Olynek, Edward	Bellevue	42	19-7-50
Ondrus, John P. P.	Coleman	39	19-7-50
Panchusyn, Edward J. J.	Blairmore	41	19-7-50
Price, William M.	Midlandvale	62	19-7-50
Protti, Sam	Mercoal	63	19-7-50
Raymond, Henry	Coleman	64	19-7-50
Rich, Frank	Saunders	48	19-7-50
Saville, James	Midlandvale	56	19-7-50
Sernecky, Mike	Alexo	54	19-7-50
Shanks, David	Nordegg	46	19-7-50
Sinal, Martin Jr.	Cadomin	50	19-7-50
Wyrostok, George	Shaughnessy	51	19-7-50

MINE SURVEYOR

Buesnel, Phillip R.	Calgary	5	19-7-50
D'Amico, Zupito	Nordegg	7	19-7-50
Glover, James R.	Bellevue	8	19-7-50
Halldorson, Arni S.	Hillcrest	9	19 7-50
MacDonald, Donald A.	Taber	6	19-7-50
Usher, Charles V.	Canmore	10	19-7-50

FIRST CLASS ELECTRICIAN

Brenton, David J.	Drumheller	12	19-7-50
Chriasty, John A.	Blairmore	7	19-7-50
Dutfield, George	Mercoal (Duplicate)	14	26-7-50
Hudz, Michael	Coleman	13	19-7-50
Peebles, James W.	Shaughnessy	10	19-7-50
Raffin, Peter D.	Nordegg	11	19-7-50
Welsh, David	Hillcrest	8	19-7-50
Wyllie, Gordon F.	Shaughnessy	9	19-7-50

SECOND CLASS ELECTRICIAN

Gustason, Oxyl G.	Canmore	4	19-7-50
Harvey, Edward N.	Rosedale	6	19-7-50
Hvizdos, Stefan	Bellevue	5	19-7-50
MacLauchlan, Douglas J.	Calwin P.O.	7	19-7-50
Webster, William H.	Rosedale	8	19-7-50

STRIP MINE BOARD OF EXAMINERS

The Board of Examiners during the year 1950 consisted of the following:

As representing:

(a) The Mine Inspectorate: J. A. Dutton, Assistant to the Director of Mines.
(b) Strip Mine Managers: G. A. Wiggan.
(c) Strip Mine Workers: S. Nicholson.
Secretary: Muriel Roberts.

Examinations during the year were held as follows:

For Foremen and Blasters at the following centres: Edmonton, Blairmore, Cadomin and Drumheller on May 30th and 31st.

For Strip Mine Managers at the following centres: Calgary and Edmonton on June 8th.

Seven candidates presented themselves for examination for Strip Mine Managers' Certificates, of whom three were successful.

Seventeen candidates presented themselves for examination for Foremens' Certificates, of whom fifteen were successful.

One candidate presented himself for examination for Blaster's Certificate and was successful.

The list following herewith gives the names of successful candidates for all classes of certificates during 1950.

LIST OF HOLDERS OF STRIP MINE MANAGER', FOREMEN'S AND BLASTER' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1950

STRIP MINE MANAGER

Name	Address	Cert. No.	Date of Issue
Barclay, William	Nacmine	41	11-5-50
Campbell, Thomas	Drumheller	42	11-5-50
Crabb, Danniel J.	Lethbridge	43	11-5-50
Dinsdale, William	Nacmine	52	6-9-50
Farmer, Eric E. J.	Edmonton	50	15-7-50
Hooyberg, Adrian	Blairmore	53	6-9-50
Howells, Nathaniel	Cambria	44	11-5-50
Mainland, William B.	Dodds	51	15-7-50
Morgan, Owen	Saunders	45	11-5-50
McAndrew, John	Calgary	46	11-5-50
MacKinnon, Hugh G.	East Coulee	48	11-5-50
Potter, Idwal N.	Nacmine	47	11-5-50
Schymizek, John	Big Valley	49	15-7-50

FOREMEN

Name	Address	Cert. No.	Date of Issue
Bish, Homer F.	Forestburg	44	15-7-50
Bish, Walter H.	Forestburg	56	15-7-50
Dunlop, Thomas S.	Coleman	47	15-7-50
Gabert, Jake	Halkirk	50	15-7-50
Houle, Adelard	Morinville	55	15-7-50
Lang, John	Halkirk	49	15-7-50
Leonhardt, Victor	Drumheller	53	15-7-50
Milne, George M.	Stettler	51	15-7-50
Munro, Stanley S.	Ardley (Duplicate)	57	25-10-50
Neilson, Morten H.	Halkirk	46	15-7-50
Ovelson, Kenneth V.	Kingman	52	15-7-50
Pooke, Nick	Ryley	48	15-7-50
Rayner, Arthur F.	Calgary	54	15-7-50
Siega, Levy J.	Bellevue	45	15-7-50
Stene, Alexander	Mountain Park	42	15-7-50
Wright, Albert	Mountain Park	43	15-7-50

BLASTER

Name	Address	Cert. No.	Date of Issue
Strazza, Peter L.	Mountain Park	11	15-7-50

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7 and 8, 1950

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 1 — Time—3½ hours

THE COAL MINES REGULATION ACT

Values

1. What are the interpretations of the Act with reference to:
   (a) Owner;
   (b) Small mine;
   (c) Working face;
   (d) Workman. 15
2. What are the requirements of Section 8 with reference to the duties of an inspector finding a dangerous condition, and the objection by the owner, agent or manager to remedy any matter complained of? 20
3. What are the provisions of Section 20 regarding payment of wages, agreements thereto and notice in cases of default? 30
4. What are the requirements of the regulation made pursuant to Section 46 in connection with the granting of a permit to any person who is not the holder of a Miner's Certificate? 25
5. State the provisions of Section 63 in connection with the requirements as to outlets to the surface, and the injunction as to contravention of same. 25
6. Under Section 71, what buildings are required at a mine? 10
7. (a) What does Section 79 state regarding monthly returns of production?
   (b) What is the penalty provided for under Section 167 for failure to make returns or giving false information therein? 20
8. What are the requirements of Section 144 regarding barrier or boundary pillars? 15
9. What are the requirements of the regulations in connection with explosive magazines for storage? 20
10. What does paragraph (p) of the Electrical Rules state regarding the requirements which must be observed in any mine in which inflammable gas or coal dust is likely to be found in dangerous quantities? 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7 and 8, 1950

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 2 — Time—3½ hours

GASES, SHOT-FIRING AND SAFETY LAMPS

Values

1. (a) What constitutes a dangerous amount of coal-dust in suspension in mine air?
   (b) What degree of fineness will render the coal-dust explosive?
   (c) At what temperature does coal-dust ignite? 20
2. A sample of mine-air was found by chemical analysis to contain: 2.96% Carbon-dioxide, 14.62% Oxygen, 0.18% Methane and 82.24% Nitrogen. By calculation, find the respective percentages of air, firedamp and blackdamp in the sample. 20
3. (a) What is a sheathed explosive?
   (b) What are its advantages?
   (c) What are its disadvantages? 20
4. The weight of methane in the return airway is 4% of the total weight of the mixture. Ascertain by calculation, whether such a mixture is considered to be explosive. 18
5. Give a description of one instrument for each of the following purposes, and the instrument described should be suitable for use by an examiner:
   (a) Detection of carbon-monoxide.
   (b) Detection of methane.
   (c) Detection of carbon-dioxide. 18
6. (a) Roughly sketch and describe a "Bureau of Mines Volumeter."
   (b) Describe how you would use it to determine the respective weights of rock and coal in a sample of mine-dust.
   (c) If the sample tested gives a volumeter reading of 70, and by means of the graph used, this represents 79% rock-dust and 21% coal-dust, and the rock-dust used contains 2% combustible matter and the coal mined contains 5% incombustible matter, then find the percentage of incombustible matter in the sample. 30
7. (a) A pre-shift reading and recording of the barometer is compulsory by law. Give your views as to how these readings are helpful for safer operations where shot-firing is practiced in mines that are likely to give off large quantities of methane from gobs and crevices.

(b) At what season of the year has the most disastrous explosions occurred, and explain or give reasons for this. 18

8. (a) What is the maximum explosive point of C.H.4? Show by calculation how the maximum explosive point is found.

(b) By what percent must the ventilation be increased so as to reduce a mixture of C.H.4 and air at its most explosive point, to a mixture that contains 1% C.H.4? 18

9. (a) Give the chemical symbols, atomic weights and the specific gravities of methane, carbon-dioxide, carbon-monoxide and air.

(b) Show how specific gravities are calculated from atomic weights. 20

10. (a) What gases would probably result from the ignition of a mixture of 5,000 cu. ft. of methane and 40,000 cu. ft. of air?

(b) Would the atmosphere created be a very dangerous one? Consider the various possible mixtures. 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 6, 7 and 8, 1950

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120

Paper No. 3 — Time—3½ hours

VENTILATION

Values

1. What caused the early types of mine fans to be superseded by modern types? Give your opinion as to the present trend of improvement with a description of a modern type of fan capable of ventilating an extensive mine. 22

2. In mine ventilation it is not uncommon to find that a large amount of air produced by the fan is lost before reaching the coal faces. How do you account for this? Describe (a) how you would detect the causes of the loss of air and (b) the steps you would take to increase the proportion of air reaching the coal faces. 22

3. Under natural division, three splits A, B and C each pass the same volume of air per minute. Split A is 6 ft. by 10 ft., B 8 ft. by 10 ft. and C 10 ft. square. Given that the relative length of split A is unity, find the relative lengths of B and C referred to A. 20

4. It is proposed to hoist 1,600 tons of coal per shift of eight hours from a mine through the two means of egress and ingress, namely, Upcast and Downcast shafts. Sketch and describe showing plan and elevation the arrangements you would adopt at the surface to enable this to be done without interfering with the ventilation. 26

5. Two shafts are each 1,600 feet in depth, the Downcast having an average temperature of 50 degrees Fahr. What would be the average temperature in the Upcast shaft when the difference in pressure is equal to 0.6 inches water gauge? The average barometer reading 28 inches. 22

6. At the junction of the east and west returns of a mine, the volume is 120,000 cu. ft. of air per minute which contains 2% of $C.O._2$, this being 975 cubic feet of $C.O._2$ per minute. Find:

(a) the separate volumes passing per minute in east and west returns.

(b) the percentage of $C.O._2$ in the west side return. 20

7. Do you advocate the use of "Booster fans" as conforming to good mining practice? Under what conditions would you recommend their use? 18

8. What is the value of taking hygrometer readings from the standpoint of mine ventilation? What indications can be derived from its use? 18

9. The barometer at a mine reads 28.5 inches, the mine water gauge 3.5 inches. What would the barometer read in the airway close to the fan?

(a) When the fan is compressing?

(b) When the fan is exhausting? 14

10. A fan ventilates a mine through several miles of air course. A door is suddenly opened, allowing the air to travel directly from the air shaft to the return. Will the opening of this door cause any change in the operation of the fan? Give the reason for your answer. 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7 and 8, 1950

FIRST CLASS CERTIFICATES

Marks obtainable 200 Marks required 120
Paper No. 4 Time—3 ½ hours

PRACTICAL WORK, FIRST AID, MINE RESCUE

Values

1. A flat seam 6 feet in height has just been opened, and partially developed with a three entry system. The butt entries are 2,000 feet in length and 500 feet apart, with the rooms being 250 feet in length. Signs of squeeze are now showing in the places developed. Sketch and describe how you would develop this mine with a view to preventing squeeze, and extracting the maximum amount of coal therefrom. 25
2. Sketch and describe suitable automatic doors to be used on a main haulage road where endless rope is in operation. Make the doors as simple in operation as possible. 18
3. Sketch and describe a diesel locomotive suitable for use underground in a coal mine, and indicate the features that make it permissible. What are Aldehydes? What gas forms the chief hazard in the operation of diesels underground, and how is it reduced to safe operating limits? 20
4. A vertical seam 10 feet in thickness with a hard footwall, and a roof or hanging wall that requires support when the coal is extracted, is to be opened up. Show how you would develop this mine, and sketch the method of timbering in the working places. How would you extract the pillars? Indicate the degrees of pitch on the chutes of the working places. 24
5. You are a captain of a mine rescue team, and have just received instructions to rescue three men trapped by smoke in the mine. One of the men has a broken femur. Enumerate the steps you would take from time you received instructions, to the time you return to the surface with the rescued men. 18
6. An area containing 50 acres is underlain by a seam of coal 6 feet in height, dipping one foot in five feet. The seam has been previously worked, and 20% of the coal was extracted before it flooded with water to the surface. Calculate the quantity of water in cubic yards, and gallons contained in these workings lying within the boundaries of the surface area. 15
7. What are the advantages and disadvantages of skip hoisting as compared with cage hoisting? Sketch a skip suitable for hoisting coal, and show what arrangements you would provide for loading the skip at the bottom of the shaft. 20
8. Sketch an air table suitable for cleaning bituminous coal, and state under what conditions you would abandon the use of air tables. 18
9. A main haulage road, 16 feet wide and 14 feet high is showing signs of weakness over a stretch 100 feet long. It is proposed to build a wall of concrete, both sides 2 ft. 6 in. thick and 10 ft. high. I beams 12 feet long and 10 inches high will span the road at intervals of five feet, and the spaces between the I beams will be filled with reinforced concrete 10 inches thick. Temporary wooden sets have been erected 5 feet apart, with the legs clear of the proposed walls. Sketch and describe how you would do this work without removing the temporary supports, until the concrete is properly set. Show how you would place the permanent roof supports. 22
10. Sketch and describe how you would lay out the ropes, and effect the necessary changes to serve three separate sections of a mine with a main and tail rope system. Show details of the junctions or branches and state when you would make the rope changes. 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7, 8, 1950

FIRST CLASS CERTIFICATES

Marks obtainable 200 Marks required 120
Paper No. 5 Time—3 ½ hours

MACHINERY

Values

1. A 30 inch steam cylinder is supplied with steam at 45 lb. per sq. inch and the back pressure is 2 lbs. per sq. inch. If the low pressure cylinder of a compressor is 36 inches in diameter and the high pressure cylinder is 20 inches in diameter, what would be the absolute pressure of the air discharged from the low pressure and high pressure cylinders. Ignore heat transference in the cylinders and intercoolers. 18
2. In connection with switchgear for starting and controlling a three-phase motor, what is meant by the terms:
   (a) Loose handle switch,
   (b) Automatic overload trip with time lag device,
   (c) Low-volt or no-volt release,
   (d) Potential transformer,
   (e) Rupturing capacity. 24

3. Mine cars having a gross weight of six long tons each are to be hauled outbye from the loading station in sets of thirty, on a dipping gradient of one in 200. If the frictional resistance is 20 lb. per ton, find the tractive force required to haul the train outbye. 18

4. A cast iron pipe is 900 feet long at a temperature of 71 degrees Fahr. Calculate the length of the same pipe with live steam passing through and raising the temperature of the pipe to 327 degrees Fahr. Sketch and describe one good telescopic method of providing for the expansion being taken up. The co-efficient of expansion is 0.00000665 per degree Fahr. 22

5. A haulage rope cost $2,500 when new. After working for four years of 270 working days each year, and hauling 800 cars each day, containing 30 cwt. per car, it is to be replaced by a new rope. Calculate the cost per ton of the old rope to the second decimal place. 18

6. What is meant by the term "Power Factor" in an electric circuit? What may be the cause of a low power factor? If a three-core cable were carrying its maximum current of 300 amperes at 0.6 power factor and 3,300 volts between phases, what extra power would be delivered if the power factor were raised to 0.8? 22

7. A steel winding rope is 1¼ inch in diameter, and has a breaking strength of 65 long tons. The loaded cage and attachments weigh 5 long tons, and the length of the rope from the pithead sheave to the cage is 900 feet. Calculate the static factor of safety in the rope, if the acceleration is 3 feet per sec. per sec. What is the actual factor of safety in the rope as the wind commences? 16

8. What apparatus and devices are used on a steam winding plant at a deep shaft mine to afford information and to ensure safety? What are the points that should receive regular attention in keeping these appliances in good order? 18

9. A direct-current motor running at 700 revolutions per minute, takes 35 amperes at 500 volts and has an efficiency of 0.93. What is the torque of the motor, if the radius of the pinion on the motor shaft is 0.292 ft.? What is the effort applied at the periphery of the motor? Define the term "torque". 24

10. What size of pipe should be used in transmitting 5,000 cubic feet of air per minute, a distance of 3,000 feet at sea level, when the initial gauge pressure is 70 lbs. per sq. inch? Use a pipe constant of 50 and the weight of one cubic foot of air to be 0.0766 lb. 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 6, 7, 8, 1950

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 6 — Time—3½ hours

SURVEYING, LEVELLING AND GEOLOGY

Values

1. The following are the notes of an underground survey.

Station	Bearing	Horizontal distance in feet
1-2	N 35° E	270.0
2-3	N 83° 30′ E	129.0
3-4	S 57° E	222.0
4-5	S 34° 15′ W	355.0

Plot the survey by latitudes and departures on a scale of 100 feet to 1 inch and calculate the length and azimuth of a straight line from Station 5 to Station 1. 35

2. We have bought a piece of coal land, commencing at the southeast corner of the northwest quarter of Section 24 and running due west 2,640 feet, thence north 2,640 feet, thence east 2,400 feet, thence to the place of beginning; how many tons of coal are there underlying this land allowing 27 cubic feet to a ton? The coal is 4.5 feet thick; allow 36 per cent for screening and 6 per cent waste. 28

3. Bore holes are put down to a coal seam at three points, A, B and C. The depth to the coal at A is 250 feet, at B, 335 feet, and at C, 370 feet. The distance from A to B is 1,200 feet, from B to C, 1,550 feet, and from A to C, 2,250 feet. The surface being level, at what point will the line of strike through B cross the line from A to C? 30

4. Work out the following level notes, stations being 100′ apart, state gradient from Sta. 1 to Sta. 10.

Station	Back Sight	Int. Sight	Fore Sight	Elevation
1	3.97			2130.29
2		8.42		
3	1.07		10.28	
4	0.96		9.99	
5		5.42		
6		3.81		
7	1.70		12.20	
8		6.02		
9	3.21		9.78	
10			6.91	

35

5. The survey of a piece of land gave the following bearings: N 39 degrees E, S 80 degrees E, S 20 degrees E, S 5 degrees W, N 45 degrees W, N 30 degrees E; state how many right angles the sum of the interior angles would make, and give each and every interior angle, numbering your angles A, B, C, etc. 30

6. Describe briefly and show by suitable sketches what is meant by the terms:
   (a) Displacement of stratified rocks.
   (b) 1. Outcrop 2. Strike 3. Dip.
   (c) Folding of strata.
   (d) Domes and Basins.
   (e) Unconformity.
   (f) Normal fault and Reverse fault. 32
7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper. 5
8. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper. 5

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7, 8, 1950

SECOND CLASS CERTIFICATES

Marks obtainable 200 Marks required 100
Paper No. 1 Time—3½ hours

THE COAL MINES REGULATION ACT

Values

1. What are the interpretations of the above Act with reference to:
   (a) Adequate Ventilation;
   (b) Examiner;
   (c) Mine;
   (d) Safety Lamp. 20
2. What are the requirements of Section 11 with reference to age and health of employees? 20
3. What does Section 60 state regarding the supervision, duties and qualification etc. of an overman? 30
4. What are the requirements of Section 79 regarding monthly returns of production? 10
5. State the requirements of Section 85 in connection with hoisting apparatus for raising and lowering persons. 10
6. What does Section 129 state regarding the withdrawal of men from the mine when conditions are found to be dangerous? 20
7. State the provisions of Section 136 with reference to the running of mantrips. 25
8. What does Section 145 state regarding explosives and shot-firing? 20
9. What are the requirements of the general rules under Section 149 regarding:
   (a) Delegation of work by persons in a position of trust (Rule 9);
   (b) Inspection of machinery, etc. (Rule 4);
   (c) Riding on cars, etc. (Rule 17);
   (d) Walking on hoisting slopes (Rule 20b);
   (e) Coupling cars (Rule 21). 20
10. What does Section 152 state in connection with the duties of an Examiner?...... 25

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7, 8, 1950

SECOND CLASS CERTIFICATES

Marks obtainable 200 Marks required 100
Paper No. 2 Time—3½ hours

GASES, SHOT-FIRING AND SAFETY LAMPS AND VENTILATION

Values

1. (a) What are the atomic weights of hydrogen, nitrogen, oxygen, carbon and sulphur?
   (b) What is the percentage composition of normal air, by volume and weight respectively?
   (c) Find the weight of a cubic foot of dry air, when the barometer reads 30 inches, and the thermometer reads 60 degrees Fahr. Which is the heavier, dry-air or wet-air? 24
2. (a) Give a description of a low tension electric detonator.
   (b) Are the No. 8 detonators superior to the No. 6 detonators? If so, why? 18
3. 45,680 cubic feet of air per minute is passing through a mine. There are three splits from a common point, which reunite at a common point. All splits have the same sectional area, but have different lengths, the second split being twice the length of the first, and the third split being three times the length of the first. What quantity passes through each split? 20
4. (a) What are the chemical symbols of carbon-monoxide?
   (b) Where and when would you expect to find it in a mine?
   (c) Is it an inflammable gas?
   (d) What is its effect on persons breathing it? 20

5. You proceed to fire a shot in a safety lamp mine. Give in detail, and in the order of procedure, all the things you would do, from the time you reach the working-face, up to the time the miner recommences loading coal. 20

6. What is a Regulator? For what purposes would you install a regulator? What changes take place within a ventilating system due to the installation of a regulator? 20

7. (a) What is meant by the term "Motive Column," in ventilation?
   (b) You have two shafts, each being 600 feet deep. The weight of the air in the intake shaft is 0.08 pounds per cubic foot, and the weight of air in the return shaft is 0.075 pounds per cubic foot. Calculate the "motive column." 20

8. (a) What is meant by the term "Water Gauge"?
   (b) Where would you expect to find the water gauge at the mine where you are working?
   (c) If the water gauge reads 2.5 inches, what information would you derive from this? 18

9. (a) The joint efficiency of the fan an dmotor is 70%, and the fan is producing 70,000 cubic feet of air per minute at a water gauge of 2 inches. What is the horse power of the motor driving the fan?
   (b) If the quantity is increased to 80,000 cubic feet per minute, and the joint efficiency of fan and motor is maintained, what horse power motor will be required? 24

10. (a) What gases are met with in coal mines?
    (b) How are they produced?
    (c) Name the poisonous ones.
    (d) Name the inflammable ones. 16

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7, 8, 1950

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 3 — Time—3½ hours

PRACTICAL WORK, FIRST AID AND MINE RESCUE WORK

Values

1. A seam 18 feet in height, inclined at 40 degrees, has been developed from an entry. Angles on an inclination of 28 degrees have been driven in pairs, at intervals of 500 feet to an entry above. The distance between the two entries being 800 feet, measured on the pitch. The angles have been driven on the footwall, and are 9 feet in height, and 10 feet in width. Sketch and describe how you would take the coal from this seam, and the system of timbering you would adopt. State the percentage of coal you would recover from the seam. 30

2. Sketch and describe two methods of timbering a room neck being turned off an entry in a flat seam, where the head room is limited, and the roof fairly heavy. State which method you would adopt, giving reasons. 15

3. What is meant by "Suspension roof supports", and what are the advantages in this method of roof support? Sketch a section of a room in a flat seam with the roof supported in this manner. 20

4. A fire has been discovered in the gob in a flat seam. Describe the procedure you would adopt in extinguishing this fire. Discuss the application of water, rock dust and "dry ice" in fire-fighting underground. 20

5. Sketch and describe a tension arrangement to be used in conjunction with an endless rope haulage system in:
   (a) A flat seam 6 feet in height,
   (b) A pitching seam 10 feet in height. 20

6. A section of a flat seam 5 feet in height is to be worked with the aid of duckbills. The immediate roof consists of one foot of shale, above which is a hard sandstone. Show a section of the mine laid out to produce 500 tons of coal in an eight-hour shift. Describe a cycle of operations on one of the working places, and show method of timbering. Arrangements of car supply should be indicated. 30

7. Make a sketch plan of a self-acting incline, showing arrangements of track, and switches at the top, middle and bottom of the incline. Make a separate sketch showing details of the brake wheel, or drum used to operate the incline. 20

8. Three duckbills load on to a belt, which in turn loads into mine cars of three ton capacity. The capacity of the duckbills is as follows:
   No. 1—One ton in 3 minutes,
   No. 2—One ton in 2½ minutes,
   No. 3—One ton in 2¼ minutes.
   How long will it take to load ten mine cars when all duckbills are in operation at the same time? 15

9. Sketch and describe a method of setting a cog on a longwall face, so that the cog can be easily withdrawn with safety, when required. 10

10. Sketch and describe any coal cutting machine with which you are familiar, and state its advantages, and disadvantages. Describe its operation and performance. 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7, 8, 1950

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 4 — Time—3½ hours

MACHINERY

Values

1. What average horse power is required to haul a car of material a distance of 650 feet in three minutes, if the tractive force acting on the car is 150 pounds? 16
2. Describe the fittings and attachments between the steel wire rope and the cage of a winding plant, stating the material used for each item. 22
3. At a certain colliery it is estimated that the cost of shaft pumping for 1,000 gallons per minute per 100 feet of depth is one-half cent. On this basis, find the yearly cost of pumping 900 gallons per minute from a shaft 1,900 feet deep. This mine pumps 24 hours daily and 365 days per year. 24
4. The belt wheel on a dynamo is two feet in diameter and should be run at a speed of 600 rev. per minute. The belt wheel on the engine is 14.5 feet in diameter. At what speed must the belt wheel on the engine run to provide the required speed in the dynamo? 18
5. Name and describe the four electrical units in common use, and state the difference between alternating-current and direct-current. 18
6. Describe the following methods of haulage, and state where and to what conditions each is best adapted: Self-acting incline or gravity plane, electric-motor haulage, endless-rope haulage, main-and-tail haulage. 20
7. What is the breaking strain of 1½-inch diameter plow steel rope? What do you consider a factor of safety for a rope of this kind, hoisting from a shaft 1,000 feet deep? 18
8. Calculate the output in kilowatts of a three-phase generator, distributing 54 amperes at 3,300 volts with a power factor of 0.75. 22
9. What is the purpose of a fly wheel on an engine? What is the effect if the fly wheel is too light? What is the effect if the fly wheel is too heavy? 20
10. Two pumps are working together. One is 36 inches in diameter, running at a speed of 62½ feet per minute. The other is 30 inches in diameter, running at a speed of 90 feet per minute. Which pump will throw the most water? 22

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 6, 7, 8, 1950

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 5 — Time—3½ hours

SURVEYING

Values

1. On a scale of 1 inch equals 100 feet, plot the following survey with scale and protractor:

Station	Horizontal Distance	Bearing
1-2	258 feet	N. 48° 00'E.
2-3	321 feet	N. 16° 30'E.
3-4	397 feet	N. 65° 15'W.
4-5	412 feet	S. 22° 15'W.
5-6	253 feet	S. 10° 30'E.

Give by measurements the length and bearing of the closing line 6-1. 35

2. How do clay veins, rock rolls or other dislocations affect the safety of the men and the economical extraction of the coal; and how would you overcome such difficulties? 25
3. How many tons of coal underlie a square field containing 5 acres, the seam being 6 feet thick and lying at an angle of 15°, the specific gravity being 1.325? 30
4. Work out the following level notes, filling in the elevation of each station and check the difference of elevation of Station 1 and Station 6 with back sights and fore sights.

Station	Back Sight	Int. Sight	Fore Sight	Elevation
1				100.00
	5.84			
2		3.08		
	7.87		1.84	
3		1.84		
	4.69		5.04	
4		2.70		
5		3.16		
6			4.23	

35

5. If a breast is driven a distance of 500 feet on a rising grade of 10° what should be the distance represented on the map of the mine, and what height has the breast attained above the gangway level? 30
6. The bearing of an entry taken from the map is S 80°E and the declination of the needle is 7°30' W. To give correct sights on this entry with a compass, what magnetic bearing would you use? 15
7. A gangway is driven N 50°E, the breasts, N 10°W; the pillars are 30 feet wide, the breasts, 24 feet wide; what is the distance between centers of breasts, measured on the gangway? 12
8. What is meant by the terms cleavage, cleat, butts, and ends used in respect to a seam of coal? 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 30, 1950

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 1 — Time—1½ hours

THE COAL MINES REGULATION ACT

Values

1. State the requirements of Section 125 as to inspection before commencement of work and during shifts, in mines where inflammable gas has not been found. 30
2. State the interpretations of the following terms (Sec. 3):
   (a) "Adequate ventilation."
   (b) "Detonator."
   (c) "Timerman's Helper."
   (d) "Working Face." 20
3. What does Section 129 state regarding withdrawal of men from mine when conditions found dangerous? 20
4. State the conditions under which manholes or places of refuge are required on slopes and on level entries, and give the dimensions of such manholes. (Sec. 135.) 20
5. What does Section 138 state regarding drills operated by mechanical power? 15
6. What do the general rules under Section 149 state regarding:
   (a) Supporting of face while undercutting.
   (b) Acts likely to cause danger.
   (c) Reporting contravention of Act.
   (d) Persons finding firedamp or other noxious gases in dangerous quantities. 20
7. What does Section 152 state regarding duties of examiner? 30
8. What are the requirements of the Regulations covering the care and use of explosives, in the case of a misfire while using cardox shells? 25
9. What does Section 15 state regarding maximum hours of employment below ground, and the exceptions thereto? ??

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 30, 1950

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 2 — Time—2 hours

VENTILATION

Values

1. Explain the constant 5.2 used in connection with water gauge calculations. 18
2. Two angles going to the rise in a seam pitching 60 degrees are 50 feet apart, and are connected by cross-cuts every 100 feet, and the faces of the angles are 50 feet in advance of the last cross-cut. The stopping in the third cross-cut back from the face has collapsed, and the ventilation has short-circuited, with the result that the angles are filled with firedamp to the third cross-cut. How would you proceed to restore ventilation, keeping safety in mind? 25
3. There are 21,945 cubic feet of air per minute passing along an airway at a velocity of 285 ft. per minute. If the height of the airway is 7 feet, what is the width? 18
4. What elements compose atmospheric air and what is the percentage of each by volume and weight? What is the lowest percentage of oxygen in air that will sustain life? 25
5. How does the change of atmospheric pressure affect a gaseous mine? 20

6. Five anemometer readings are taken at the same point in an airway, the height of which is 9 feet and the width 6 feet. The anemometer readings are as follows: 108 feet per minute, 111 feet per minute, 114 feet per minute, 51 feet per half-minute and 55 feet per half-minute. What is the average quantity of air passing through the airway? 20
7. Explain the principals governing the flow of air in mines. 25
8. At what points in a mine should air measurements be taken regularly, and how often? 24
9. Describe clearly the principal of the centrifugal ventilating fan. 25

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 30, 1950

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 3 — Time—1½ hours

PRACTICAL WORK

Values

1. You are in charge of repairing a length of main roadway in which the roof timbers are broken. State what precautions you would take before and during the repairing process. 30
2. What horsepower is required to raise 250 gallons of water per minute through a vertical distance of 330 feet? 25
3. In case of a squeeze occurring in a district under your charge, at what stage in its progress would you consider yourself justified in stopping operations and withdrawing the workmen? 26
4. Give six causes of accidents that occur on haulage roads and the methods to prevent them. 25
5. How would you render first aid to a person suffering from electric shock? 25
6. (a) What do you understand by the grade of a haulage road?
   (b) A mine road has a 5% grade. What will be the vertical rise in a distance of 1,675 feet measured horizontally? 20
7. How should props be set in a pitching seam? Illustrate your answer with a neat sketch. 24
8. Under what atmospheric conditions does mine roof fall most, and why? 25

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 30, 1950

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 4 — Time—2 hours

MINE GASES, SHOT-FIRING, EXPLOSIVES AND SAFETY LAMPS

Values

1. (a) What are the principals involved in the flame type safety lamp?
   (b) Name six essential features of a good lamp for general work. 24
2. Make a detailed sketch of a low tension detonator, and state the advantages it has over the high tension detonator. 20
3. Describe how you would charge, stem and fire a shot-hole in coal and state the precautions you would take during the process. 24
4. What dangers arise from lack of judgement in placing shots? 20
5. Explain the meaning of the terms specific gravity and density, as applied to gases. 20
6. What conditions are necessary to cause an explosion of firedamp? 30
7. State how you would examine an electric cap lamp before giving it out for use in the mine. 20
8. State the causes of sudden outbursts of gas in coal mines and say what, in your opinion, should be done to prevent accidents from this cause. 24
9. What proportion of firedamp in an air-current forms an explosive mixture of the least dangerous character? 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 8, 1950

MINE SURVEYORS' CERTIFICATE

Marks obtainable 200 — Marks required 120
Paper No. 1 — Time—3½ hours

SURVEYING

Values

1. The distances between three trigonometrical stations, A, B and C, are as follows: A to B, 942 ft.; A to C, 840 ft.; and B to C, 978 ft. Calculate the distance from the station B, of another station D, outside the triangle formed by ABC—the angles ADC and BDC being 25 deg. 52 min. 00 sec. and 23 deg. 6 min. 00 sec. respectively. 45

2. A water tank at a colliery in the form of an inverted cone is 40 ft. in diameter with a vertical depth of 28 ft. If the contents be drained off to a level of 16 ft. from the top, calculate the number of gallons so drained off. 25

3. State in acres and decimals thereof the area of an enclosure measuring 4 in. square on each of three plans drawn to scale of $\frac{1}{1584}$, $\frac{1}{2500}$, and $\frac{1}{10560}$ respectively. 25

4. The following are the notes of a short underground traverse which was made to ascertain if the position of the point F was in line with BA produced.

Line	Azimuth	Distance in ft.
AB	355°-30'	600
AC	125°-00'	310 rising 1 in 2
CD	210°-18'	378
DE	130°-36'	412
EF	214°-00'	465

Calculate the difference in the azimuths of AF and BA and the extent to which the point F is out of alignment with BA produced. 40

5. You are instructed to visit a colliery for the purpose of making an examination of the statutory plans in use thereat, the accuracy of which is suspect, and thereafter reporting to the Director of Mines. State the successive items which you would make the subject of your investigation, and the steps which you would recommend for adoption to have the inaccuracies remedied, if such were obvious. 35

6. State what plans must be made in compliance with the requirements of the Coal Mines Regulation Act. 25

7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 5

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 8, 1950

MINE SURVEYORS' CERTIFICATE

Marks obtainable 200 — Marks required 120
Paper No. 2 — Time—3½ hours

LEVELLING AND GEOLOGY

Values

1. A surface drift at 1 in 4.82 is being driven on a bearing of N.72°37'13" W. At a predetermined point on this steep gradient it is proposed to continue the drift on the same bearing at a rising gradient of 1 in 500. Due to the fact that large mine cars are to be used it is found necessary to connect these two gradients by a vertical curve of 100 ft. radius. The co-ordinates in feet and level in feet below Ordinance Datum, of the tangent point A on the 1 in 4.82 gradient are as follows:

Station	Latitude	Departure	Level
A	+583.66	-2,865.69	-126.66

From the above information calculate the co-ordinates and level of the other tangent point B on the 1 in 500 gradient. State briefly how you would ensure that the drift and track are set out and maintained at the correct radius between A and B. 50

2. An excavation for a building is made in ground which rises due North, uniformly at 1 in 10. The level base of the excavation is rectangular 60 ft. by 40 ft. The front commences at surface level on an East and West line 60 ft. long and the two sides and back of the excavation slope at 1 vertical to 2 horizontal. Calculate the volume of the excavation in cubic yards. 30

3. Following are the notes of an underground traverse made from the centre of a shaft at A to a point F from which a roadway is to be driven, dipping at 1 in 200, back to the point A, but at a lower level.

Line	Bearing	Distance in Feet	Inclination
AB	S.84° 30'E	268	Rising at 1 in 50
BC	N.46° 00'E	134	LEVEL
CD	N. 6° 30'W	342	Dipping at 14°
DE	N. 7° 00'W	290	Dipping at 15°
EF	S.82° 15'W	328	Rising at 1 in 100

Plot the traverse to the scale of 1 in. to 100 ft. and find the length and bearing of the roadway FA. Thereafter calculate the amount by which the shaft must be deepened to reach the new roadway from F to A. 40

4. State the area in acres, to three decimal places, represented by a rectangle, 3 in. by 1¾ in., on each of three plans drawn to the scale of—
   (a) 6 in. to one mile.
   (b) 1/1, 250.
   (c) ½ in. to 100 links.
   State the above scales as their equivalent representative fractions for (a) and (c) and as the number of inches per mile in the cas of (b). 30
5. Discuss briefly the general considerations that influence the design of a surface plant at a Bituminous Coal Mine. 25
6. Two drill holes, 1 mile apart, are put down to a seam of coal; the depth of the first is 634 feet, and that of the second 850 feet; the surface at the former is 25 feet above the top of the latter. What is the inclination of the coal seam between the two points, measured in inches per yard? 20
7. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper. 5

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 30, 1950

MINE ELECTRICIANS' CERTIFICATES
(FIRST CLASS)

Marks obtainable 200 — Marks required 120
Paper No. 1 — Time—1½ hours

THE COAL MINES REGULATION ACT

Values

1. Under Regulation (k), how are all terminals, cable ends, cable joints and connections of apparatus to be constructed and maintained? 50
2. Explain the following electrical terms:
   (a) Concentric system;
   (b) Open sparking;
   (c) Authorized person;
   (d) Danger;
   (e) Metallic covering. 30
3. What notices of intentions are required to be forwarded to the district and electrical inspectors? 25
4. State the requirements of Regulation (f) in connection with the construction, working space and equipment of all places where transformers, motor-generator sets and switch gear are placed. 30
5. What are the requirements of Regulation (m) in connection with all cables other than flexible cables for portable apparatus and signalling wires? 30
6. Under Regulation (o), what are the daily duties of the electrician while in attendance at the mine? 35

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 30, 1950

MINE ELECTRICIANS' CERTIFICATES
(FIRST CLASS)

Marks obtainable 200 — Marks required 120
Paper No. 2 — Time—2 hours

THEORY

Values

1. What is the frequency of an alternating current generated by a 10 pole A.C. machine when it is running at 300 R.P.M.? Show your work. 30
2. (a) How may the K.V.A. output or input of an A.C. machine be computed? Give Formulae for: Single Phase, Two Phase, Three Phase. 15
   (b) How may the kilowatts be computed? Give formulae. 20

3. (a) Three transformers are connected Delta and the line voltage is 2,200 volts. What would be the voltage across each transformer? ... 10
   (b) If connected Star what would be the voltage across each transformer? ... 20

4. A motor on test develops output of 10 H.P. with an input of 50 amps from a 220-volt circuit. If the motor output in watts is 80 per cent of the input referred to above, what is the power factor? ... 35

5. What size of copper conductors are required to supply 100 amperes to a D.C. motor, a distance of 600 feet, with an allowable potential drop in the line of 2 volts? ... 35

6. Consider a 3 wire 110/220 volt lightening circuit. There is a load on one side of 5500 watts and there is a current of 10 amperes in the neutral. What load is on the other side of the circuit? ... 35

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 30, 1950

MINE ELECTRICIANS' CERTIFICATES (FIRST CLASS)

Marks obtainable 200 — Marks required 120

Paper No. 3 — Time—3½ hours

PRACTICAL WORK

Values

1. (a) What size of conduit would you use for three No. 2 rubber covered conductors? ... 5
   (b) How many bends are allowed in one run of rigid conduit, from outlet to outlet? ... 5

2. What is meant by "sequence control" of a group of motors? Explain how this is obtained. ... 20

3. A switch board is to be installed in a power house, the generator voltage is 2300 volts and there are three outgoing 2300 volt circuits. State what apparatus you would use and how you would arrange same. Make a sketch indicating apparatus, meters, etc, required. ... 30

4. A transformer which has not been in use has become damp. Explain how you would dry out the transformer and what tests you would make before putting same into service. ... 25

5. A fan starter is of the "across the line" magnetic type and when the supply of power fails, the starter opens. It is desired that the fan start up automatically on the return of power. Explain how you would connect the starter so that this would happen. Use a sketch if you wish. ... 20

6. Explain how you would test to find the power factor of a circuit. ... 15

7. Define a relay and describe the types of relays with which you are familiar. .. 25

8. In connecting up interpoles in a D.C. motor, what polarity should they have in relation to the main poles? Nn, Ss or Ns, Sn. N and S being main poles and n, s being interpoles. ... 20

9. Make a sketch of an "Earth Leakage Control" and describe how such control functions. ... 20

10. A ground detector can be made up of lamps for use on a three phase, 440-volt circuit. Make a sketch of detector and show which lamps will be bright and which will be dark when one leg of the circuit is grounded. ... 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 30, 1950

MINE ELECTRICIANS' CERTIFICATES (SECOND CLASS)

Marks obtainable 200 — Marks required 100

Paper No. 1 — Time—3½ hours

THE COAL MINES REGULATION ACT

1. Explain the following electrical terms;
   (a) Metallic covering;
   (b) Earthed;
   (c) Open sparking;
   (d) Pressure;
   (e) System. ... 20

2. What are the requirements of Section 47 with reference to electricians doing certain work at a working face? ... 15

3. State the requirements of Section 52 in connection with notice of appointment of a mine electrician. ... 20

4. What are the requirements of Regulation (m), dealing with all cables other than flexible cables for portable apparatus and signalling wires? 25
5. What are the requirements of Regulation (k) with reference to switch gear, etc.? 20
6. What additional requirements must be observed in cases where inflammable gas or coal dust, although not normally present, is likely to occur in dangerous quantities? (Reg. (p).) 25
7. Under Regulation (d), what notices are required to be exhibited where necessary? 20
8. What does Regulation (g) state regarding apparatus and conductors being of sufficient size and power for the work they may be called upon to do? 20
9. What are the requirements of Regulation (j) in connection with the distribution of electricity at a pressure higher than medium pressure? 20
10. What does Regulation (r) state regarding the use of electricity for signalling? 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 30, 1950

MINE ELECTRICIANS' CERTIFICATES (SECOND CLASS)

Marks obtainable 200 — Marks required 100
Paper No. 2 — Time—3½ hours

THEORY AND PRACTICAL WORK

Values

1. (a) What is the current carrying capacity of No. 10 rubber covered wire? 10
   (b) How many No. 12 rubber covered wires can be pulled into a ½-inch conduit? 10
2. How many volts will it take to send a current of 10 amperes through a wire 500 ft. in length, which has a resistance of .00625 ohms per foot? 20
3. (a) What first aid would you render if a person was apparently electrocuted and still in contact with the line? 10
   (b) What would you do if he was burned? 10
4. What is an auto-transformer and where is it used? Show by means of a simple diagram its connections. 20
5. In taking a large transformer off the line, which is opened first, the isolating switches or the oil circuit breaker? Give reasons. 20
6. (a) What kind of wiring would be suitable for lighting a bunk house where the floor space is approximately 1800 sq. ft.? 10
   (b) What kind of wiring for a garage capable of accommodating four cars or trucks? 10
7. In testing the tolerance of the flanges of an explosion-proof motor starter, what tolerence would you consider safe? By tolerence is meant the space between flanges. 20
8. What size of switches and fuses should be used ahead of "across the line" starters when installing:
   (a) A 10 H.P. 220 volt, 3 phase squirrel cage motor. 10
   (b) A 10 H.P. 440 volt, 3 phase squirrel cage motor. 10
9. The frames of electrical apparatus, conduit, etc. are grounded to a common ground electrode. Explain how you would test this ground to see if same was in good contact with the mass of the earth. 20
10. If you were called upon to wire the shaft bottom and main parting for lights, in a safety light mine, explain what fittings you would use for lights and control switches and describe how you would wire the system, starting at the top of the shaft. 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 8, 1950

STRIP MINE MANAGER'S CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 1 — Time 3½ hours

THE COAL MINES REGULATION ACT

Values

1. State the Regulations which the Lieutenant-Governor-in-Council may from time to time make in connection with Strip Mining. (Sec. 174a). 15
2. What are the requirements of Regulation 2 and 3 of the Strip Mine Regulations, under the heading of "Supervision", regarding the responsibility and duties of Managers, Foremen and Blasters. 30

3. What are the requirements of the Coal Mines Regulation Act in connection with inquests held on body of person killed by accident. (Sec. 105). 35

4. What are the interpretations of the following terms (Reg. 1):
   (a) "Strip Mine".
   (b) "Sides".
   (c) "Manager".
   (d) "Foreman".
   (e) "Blaster". 10

5. (a) What does Section 79 of the Act say in connection with monthly returns of production?
   (b) What penalty may be imposed for failure to send returns or giving false information therein? (Sec. 167). 15

6. State the requirements of the General Rules under Section 149 of the Coal Mines Regulation Act regarding:
   (a) Fencing of machinery (Rule 2).
   (b) Hand and guard railing (Rule 3).
   (c) Duty of obedience to orders (Rule 8).
   (d) Acts likely to cause danger prohibited (Rule 11). 10

7. What do the Regulations state regarding transportation, storage and use of explosives? (Reg. 7 and 8). 20

8. (a) What are the duties of a Blaster? (Reg. 12).
   (b) What are the requirements of Regulation 14 in cases where detonating fuse such as Primacord, is used? 30

9. What does part 2 of the Explosive Regulations made pursuant to Section 175 of the Act, say regarding the construction and location of explosive storage magazines? 20

10. What does Regulation 18 state regarding roadways and general haulage? 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 8, 1950

STRIP MINE MANAGER'S CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 2 — Time—3½ hours

THEORY AND PRACTICAL WORK

Values

1. Distinguish between the term "Box Pit" and "Open Pit" as applied to Strip Mining and indicate your preference, stating reasons. 20

2. It is proposed to strip an area of coal where the surface is lying approximately flat. The coal seam is 7½ feet thick, sub-bituminous in rank and overlain by glacial drift and soft shales averaging 35 feet in thickness. An output of 1,200 tons per day during the fall and winter months is desired, and it is estimated that a total of 150,000 tons of coal will be sold during the season. Describe how you would conduct stripping and loading operations to produce the required tonnage, and list what equipment wou would use to carry on these operations satisfactorily. 20

3. Sketch and describe a suitable screening plant with storage facilities, to handle 500 tons of sub-bituminous coal per day for local truck trade. 20

4. What is meant by geological agencies? Name the more important of these agencies, stating briefly, how each acts. 18

5. A bituminous coal seam 25 feet thick outcrops along a hillside for a distance of 2,500 feet. The pitch of the seam is 35 degrees and dips into the side of the hill whose slope is 15 degrees and whose contours are parallel to the strike of the seam. It is proposed to recover the coal by stripping the overburden to a vertical depth of 100 feet, measured from the outcrop of the footwall of the seam. The hanging wall is of hard shale and will support itself on an angle of repose of 60 degrees. Plot a cross-section of the pit on a scale of 1 inch equals 50 feet and, from the measurements thus obtained, calculate the amount of coal in the area, if the specific gravity of the coal is 1.28. 25

6. When making a survey of your pit, state:
   (a) Five possible causes of error in making measurements with a tape;
   (b) What is a plane table, and what it is used for. 15

7. Give a description of the precautions you would adopt for the safety of all concerned in the strip mining operations. 20

8. Describe how you would collect a sample of coal, and state how you would determine the proximate analysis of same. 22

9. A seam of coal is reached by three boreholes from the same surface level, at the following depths and distances: A is 210 feet deep; B is 1,500 yards east of A and is 690 feet in depth; C is 2,100 yards south of A and is 390 feet deep. Find the rate and direction of dip. 20

10. (a) If the breaking strain of a 1 inch mild plow steel rope is 37 tons, calculate the breaking strain of a similar type rope ¾ inch in diameter.
    (b) What is meant by the term "Factor of Safety"? 20

PARTICULARS OF OPERATING MINES DURING 1950 BY AREAS

ARDLEY AREA

R. R. Straub—Mine No. 255

Mine Office: Alix, Alberta.
Mine Manager: R. R. Straub.
Mine Surveyor: David Jones.
Foreman: R. R. Straub.
Thickness of Seam: 6 ft. 2 in.
Thickness of Cover: 24 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 5, Sec. 17, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease No.: C.P.R.
Truck Mine.
Registered Trade Name: Conger Coal.

J. W. Sissons—Mine No. 809

Mine Office: Alix, Alberta.
Mine Manager: R. C. Sissons.
Mine Surveyor: D. Jones.
Foreman: R. C. Sissons.
Thickness of Seam: 5 ft.
Thickness of Cover: Approximately 45 ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 3, 4, 5, 6, 15 and 16, Sec. 33, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 475, 584.
Truck Mine.
Registered Trade Name: Pearl of Furnace Coal.

Karl Schnepf—Mine No. 969

Mine Office: Delburne, Alberta.
Mine Manager: Karl Schnepf.
Mine Surveyor: L. C. Stevens.
Overman: Karl Schnepf.
Thickness of Seam: 4 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 90 ft.
Location of Mine: L.S. 14, Sec. 10, Twp. 38, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 585.
Truck Mine.
Registered Trade Name: Great Bend Coal.

Carl Kurp—Mine No. 1135

Mine Office: Delburne, Alberta.
Mine Manager: Carl Kurp.
Mine Surveyor: David Jones.
Overman: Karl Kurp.
Thickness of Seam: 5½ ft.
Thickness of Cover: 153 ft.
Inclination of Seam: Horizontal.
Form of Opening: Entry. Size of Entry: 6 ft. x 8 ft.
Location of Mine: L.S. 4 and 5, Sec. 7, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 11, 11A.
Truck Mine.
Registered Trade Name: Kurp's Coal.

Allyn Mann Construction Co.—Mine No. 1488

Mine Office: Alix, Alberta.
General Manager: H. Allyn Mann.
Mine Manager: H. Walper.
Mine Surveyor: David Jones.
Foreman: H. Walper.
Thickness of Seam: 4 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. ½ of L.S. 3 and 4, Sec. 29, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: S.L. 512.
C.N.R. and Truck Mine.
Registered Trade Name: Eclipse Coal.

James McDowell—Mine No. 1613

Mine Office: Ardley, Alberta.
Mine Manager: A. H. Gilbert.
Mine Surveyor: David Jones.
Foreman: A. H. Gilbert.
Thickness of Seam: 4½ ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 10, Sec. 20, Twp. 38, Rge. 23, W. 4th. Mer.
Coal Mining Lease Number: 5484.
Truck Mine.
Registered Trade Name: McDowell Coal.

Wm. G. Martin—Mine No. 1663

Mine Office: Delburne, Alberta.
Mine Manager: Wm. G. Martin.
Mine Surveyor: David Jones.
Foreman: Wm. G. Martin.
Thickness of Seam: 6 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. and W. ½ of L.S. 15 and 16, Sec. 22, Twp. 37, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5634.
Truck Mine.
Registered Trade Name: Martin Coal.

D. L. Gordon—Mine No. 1673

Mine Office: Warden, Alberta.
Mine Manager: D. L. Gordon.
Mine Surveyor: David Jones.
Foreman: D. L. Gordon.
Thickness of Seam: 4 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L. S. 1 and 2, Sec. 15, Twp. 38, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 658.
Truck Mine.
Registered Trade Name: Gordon Coal.

John Lynass—Mine No. 1675

Mine Office: Warden, Alberta.
Mine Manager: John Lynass.
Mine Surveyor: David Jones.
Foreman: John Lynass.
Thickness of Seam: 4 ft.
Thickness of Cover: 2½ ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 13, Sec. 8, Twp. 38, Rge. 23. W. 4th Mer.
Coal Mining Lease Number: H.B.C. 127.
Truck Mine.
Registered Trade Name: Glennifer Coal.

Alphonso Blair—Mine No. 1716

Mine Office: Delburne, Alberta.
Mine Manager: Alphonso Blair.
Mine Surveyor: David Jones.
Foreman: A. Blair.
Thickness of Seam: 3 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Pit.
Location of Mine: L. S. 16, Sec. 8, Twp. 36, Rge. 22, W. 4th Mer.
Truck Mine.
Coal Mining Lease Number: C.P.R. 708.
Registered Trade Name: Watson and Blair Coal.

BIG VALLEY AREA

Big Valley Collieries (Alberta) Ltd.—Mine No. 864

Mine Office: Big Valley, Alberta.
Mine Manager: J. Schymizek.
Mine Surveyor: David Jones.
Thickness of Seam: 8½ ft.
Thickness of Cover: 20 ft. to 60 ft.

Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.W. ¼ of Sec. 36, Twp. 35, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5834.
C.N.R. and Truck Mine.
Registered Trade Name: Big Valley Coal.

Robert Campkin & Sons—Mine No. 1661

Mine Office: Lousana.
General Manager: R. Campkin.
Mine Manager: R. Campkin.
Mine Surveyor: David Jones.
Thickness of Seam: 5 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 7 and 13, Sec. 13, Twp. 36, Rge. 22, W 4th Mer.
Coal Mining Lease Number: C.P.R. 691.
Truck Mine.
Registered Trade Name: Campkin Mine.

George L. Grant—Mine No. 1708

Mine Office: Fenn, Alberta.
Mine Manager: R. C. Grant.
Thickness of Seam: 2 ft.
Thickness of Cover: 14 ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, Sec. 9, Twp. 35, Rge. 20, W. 4th Mer.
Truck Mine.
Registered Trade Name: Grant Coal.

BROOKS AREA

Kleenbirn Collieries Ltd.—Mine No. 1404

Authorized Capital: $250,000.00.
Name of President: J. Gordon Westgate.
Names of Directors: R. M. Balfour.
Name of Secretary-Treasurer: R. M. Balfour.
Mine Office: Eyremore, Alberta.
Mine Manager: Geo. A. Wiggan.
Mine Surveyor; J. F. Hamilton.
Foreman: W. M. Cragg.
Blasters: W. E. Herrick and E. Nelson.
Thickness of Seam: 4 ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Secs. 22, 23, 26, 27, 34, 35, and 36, Twp. 17, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 683.
Mine Located on C.P.R.
Registered Trade Name: Birnwell Coal.

J. D. Vogel—Mine No. 1672

Authorized Capital: $3,800.00.
Mine Office: Rolling Hills, Alberta.
Mine Manager: J. D. Vogel.
Mine Surveyor: E. Ashburner.
Overman: J. D. Vogel.
Thickness of Seam: 7 ft.
Thickness of Cover: 68 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 5½ ft. Depth of Slope: 178 ft.
Location of Mine: L.S. 11, Sec. 2, Twp. 14, Rge. 13, W. 4th Mer.
Truck Mine.
Registered Trade Name: Buckhorn Coal.

CAMROSE AREA

Joe Proskow—Mine No. 241

Mine Office: Dinant, Alberta.
Mine Manager: Joe Proskow.
Mine Surveyor: David Jones.
Foreman: Joe Proskow.
Thickness of Seam: 6½ ft.
Thickness of Cover: 18 ft. to 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L. S. 4, Sec. 18, Twp. 48, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: M.S. 995.
Truck Mine.
Registered Trade Name: Proskow Coal.

S. H. Burnstad—Mine No. 724

Mine Office: Ohaton, Alberta.
Mine Manager: S. H. Burnstad.
Mine Surveyor: David Jones.
Foreman: S. H. Burnstad.
Thickness of Seam: 5½ ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of L.S. 3 and 6, Sec. 14, Twp. 48, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5525.
Truck Mine.
Registered Trade Name: Burnstad's Coal.

A. A. Campbell & C. A. Fergstad—Mine No. 1055

Mine Office: Round Hill, Alberta.
Mine Manager: C. Fergstad, Sr.
Mine Surveyor: David Jones.
Foreman: C. Fergstad, Sr.
Thickness of Seam: 6 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pts. L.S. 7, 8, and 10, Sec. 30, Twp. 48, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5917.
Truck Mine.
Registered Trade Name: Eskimo Coal.

Red Flame Coal Co. Ltd.—Mine No. 1420

Authorized Capital: $20,000.00.
Name of President: A. Russell.
Names of Directors: A. Russell, R. Shortreed.
Name of Secretary: R. Shortreed.
Mine Office: Round Hill, Alberta.
Mine Manager: Howell Evans.
Mine Surveyor: David Jones.
Overman: W. V. Gotheridge.
Thickness of Seam: 6 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 150 ft.
Location of Mine: N.W. ¼ of Sec. 19, Twp. 48, Rge. 18, West of the 4th Mer.
Coal Mining Lease No. C.P.R. 467B, 5460.
C.N.R. and Truck Mine.
Registered Trade Name: Red Flame Coal.

George Shute & Partners—Mine No. 1524

Mine Office: Dinant. Alberta.
Mine Manager: G. Shute.
Mine Surveyor: David Jones.
Thickness of Seam: 5½ ft.
Thickness of Cover: 18 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 8 and 9, Sec. 7, Twp. 48, Rge. 19. W. 4th Mer.
Coal Mining Lease Number: C.P.R. 546.
Truck Mine.
Registered Trade Name: Demay Coal.

Alberta Coal Co. Ltd.—Mine No. 1603

Authorized Capital: $200,000.00.
Name of President: D. Twomey.
Names of Directors: D. Twomey, A. Burgess.
Name of Secretary: A. E. Burgess.
Head Office: 332 - 7th Avenue West, Calgary, Alberta.
Mine Office: Camrose, Alberta.
General Manager: D. Twomey, Jr.
Mine Manager: R. B. Munn.
Mine Surveyor: David Jones.
Foreman: J. Daintith.
Thickness of Seam: 3½ ft. to 5 ft.
Thickness of Cover: 25 ft. to 40 ft.
Inclination of Seam: Horizontal.

Form of Opening: Open Pit.
Location of Mine: L.S. 2, 6, 7, 10, 11 and 15, Sec. 29, Twp. 46, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: S.L. 529, C.P.R. 602.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Camrose Coal.

CARBON AREA

A. Fox (Kneehill Mine)—Mine No. 53

Authorized Capital: $12,000.00.
Mine Office: Carbon, Alberta.
General Manager: A. Fox.
Mine Surveyor: David Jones.
Overman: A. Fox.
Thickness of Seam: 3½ ft.
Thickness of Cover: 185 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: S.W. ¼ of L.S. 3, Sec. 14, Twp. 29, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: S.L. 516.
Truck Mine.
Registered Trade Name: Carbon Sunrise Coal.

A. A. McArthur—Mine No. 194

Authorized Capital: $500,000.00.
Name of President: A. A. McArthur.
Head Office: Box 47, Carbon, Alberta.
Mine Office: Box 47, Carbon, Alberta.
General Manager: A. A. McArthur.
Mine Manager: A. A. McArthur.
Mine Surveyor: W. E. G. Hall.
Thickness of Seam: 4½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.E. ¼ of Sec. 4, Twp. 31, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: S.L. 224.
C.P.R. and Truck Mine.
Registered Trade Name: Kneehill Coal.

Inland Coal. Co.—Mine No. 384

Authorized Capital: $20,000.00.
Name of President: W. J. Nesbitt.
Names of Directors: W. J. Nesbitt, R. B. Watson.
Name of Secretary-Treasurer: R. B. Watson.
Head Office: 804 McLeod Building, Edmonton, Alberta.
Mine Office: Three Hills, Alberta.
General Manager: W. J. Nesbitt.
Mine Manager: B. Nugent.
Mine Surveyor: David Jones.
Fireboss: P. George.
Thickness of Seam: 5 ft.
Thickness of Cover: 165 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 168 ft.
Location of Mine: S ½ of Sec. 36, Twp. 31, Rge. 24, W 4th Mer.
Coal Mining Lease Number: M. S. 635.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Kneehill Valley Coal.

East Trochu Coal Co.—Mine No. 710

Name of Secretary: J. A. Patterson.
Name of Treasurer: L. G. Yard.
Mine Office: Trochu.
Mine Manager: Lloyd G. Yard.
Mine Surveyor: David Jones.
Overman: L. G. Yard.
Thickness of Seam: 6 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 9, 10, 15 and 16, Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5320.
C.N.R. and Truck Mine.
Registered Trade Name: Troalta Coal.

Ben Pickering—Mine No. 817

Mine Office: Ghost Pine Creek.
Mine Manager: B. Pickering.
Mine Surveyor: David Jones.
Overman: B. Pickering.
Thickness of Seam: 5½ ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 100 ft.
Location of Mine: S. ½ of L.S. 1 and 2, Sec. 6, Twp. 31, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5510.
Truck Mine.
Registered Trade Name: Orkney Coal.

E. Reissig—Mine No. 921

Mine Office: Trochu, Alberta.
Mine Manager: E. Reissig.
Mine Surveyor: David Jones.
Overman: E. Reissig.
Thickness of Seam: 5½ ft.
Thickness of Cover: 85 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 7 ft.
Location of Mine: L. S. 15 and 16, Sec. 14, Twp. 33, Rge. 23, W 4th Mer.
Coal Mining Lease Number: 5464.
Truck Mine.
Registered Trade Name: Meadow Bank Coal.

East Carbon Coal Co.—Mine No. 1060

Mine Office: Carbon, Alberta.
Mine Manager: Ben Fox.
Mine Surveyor: David Jones.
Overman: B. Fox.
Thickness of Seam: 4 ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 6 ft. x 7 ft. Depth of Shaft: 100 ft.
Location of Mine: L.S. 12 and 13 of Sec. 7, Twp. 29, Rge. 22, West of the 4th Meridian.
Coal Mining Lease Number: C.L.S. 255.
C.P.R. and Truck Mine.
Registered Trade Name: Reliable Coal.

C. C. Campbell—Mine No. 1226

Mine Office: Trochu, Alberta.
Mine Manager: C. C. Campbell.
Mine Surveyor: L. C. Stevens.
Overman: C. C. Campbell.
Thickness of Seam: 5½ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 600 ft.
Location of Mine: W. ½ of L.S. 9, Sec. 29, Twp. 33, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: S.L. 547.
Truck Mine.
Registered Trade Name: Campbell Coal.

H. J. Halbert & Fred Beierle—Mine No. 1283

Mine Office: Trochu, Alberta.
Mine Manager: H. J. Halbert.
Mine Surveyor: David Jones.
Overman: H. J. Halbert.
Thickness of Seam: 5½ ft.
Thickness of Cover: 96 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope.
Location of Mine: S.E. ¼ of L.S. 8, Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5173.
Truck Mine.
Registered Trade Name: H. B. Coal.

Balogh Brothers—Mine No. 1359

Authorized Capital: $10,000.00.
Mine Office: Carbon, Alberta.
Mine Manager: A. Balogh.
Mine Surveyor: David Jones.
Overman: A. Balogh.
Thickness of Seam: 4 ft.

Thickness of Cover: 180 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. x 5 ft. Depth of Slope: 125 ft.
Location of Mine: L.S. 16, Sec. 12, Twp. 29, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: M.S. 234.
Truck Mine.
Registered Trade Name: Arctic Coal.

Nutall & Davidson—Mine No. 1499

Mine Office: Three Hills.
Mine Manager: F. Nutall.
Mine Surveyor: David Jones.
Foreman: F. Nutall.
Thickness of Seam: 4 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1 and 2, Sec. 9, Twp. 31, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5257.
Truck Mine.
Registered Trade Name: Fire King Coal.

Alvin Notland—Mine No. 1719

Mine Office: Morrin, Alberta.
Mine Manager: Peder Notland.
Foreman: Peder Notland.
Thickness of Seam: 2½ ft.
Thickness of Cover: 7 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 21, Twp. 31, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5968.
Registered Trade Name: Notland Coal.

CASCADE AREA

The Canmore Mines Ltd.—Mine No. 2

Authorized Capital: $1,000,000.00.
Name of President: Edmund Hayes.
Names of Directors: E. Hayes, B. F. Crane, W. R. Stewart, A. J. McMillan, R. M. Young, G. F. Jewett, Louis S. Headley. R. Morris.
Name of Secretary: J. E. A. MacLeod.
Name of Treasurer: Louis S. Headley.
Mine Office: Canmore, Alberta.
General Manager: William Wilson.
Mine Manager: V. Mrokwia.
Mine Surveyor: C. S. Dewis.
Overman: J. Brown. A. Fox, S. Louhela.
Firebosses: W. Bell. A Baroni, A. B. Crawford, J. Crawford, M. Carmichael, C. Foster. J. James, A. Kowal, A. Knudson, H. Mushgrove, J. Miskow, H. Paavola, J. Riva, B. Rogers, H. Niskanen, J. Shellian.
Thickness of Seam: 6 ft., 8 ft. and 10 ft.
Thickness of Cover: 0 to 2000 ft.
Inclination of Seam: 10 to 35 degrees.
Form of Opening: Slope. Size of Slope: 16 ft. x 8 ft. Depth of Slope: No. 4 Seam, 2400 ft.; No. 5 Seam, 1100 ft.
Location of Mine: N. E. pt. of L.S. 1, Sec. 29, Twp. 24, Rge. 10, W. 5th Mer.
Coal Mining Lease Number: S.L. 130, 131.
C.P.R. and Truck Mine.
Registered Trade Name: Canmore Coal.

Frank Wheatley & Sons—Mine No. 1244

Authorized Capital: $25,000.00.
Mine Office: Box 341, Banff, Alberta.
Mine Manager: F. M. Wheatley.
Mine Surveyor: L. C. Stevens.
Fireboss: J. W. Wheatley.
Thickness of Seam: 8 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: 30 to 40 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 300 ft.
Location of Mine: L.S. 12, Sec. 4, Twp. 26, Rge. 11, W 5th Mer.
Coal Mining Lease Number: C.L.S. 9.
Truck Mine.
Registered Trade Name: Wheatley Brothers' Coal.

Kananaskis Exploration & Development Co.—Mine No. 1667

Head Office: 227A-7th Avenue, West, Calgary, Alberta.
Mine Office: Seebe, Alberta.
Mine Manager: D. Shanks.
Mine Surveyor: W. E. G. Hall.
Overman: L. McDonald.
Firebosses: A. Sheilds, M. McGuchie, R. Clack.
Thickness of Seam: 18 ft.
Form of Opening: Slope.
Location of Mine: Sec. 3, Twp. 23, Rge. 9, W 5th Mer.
Coal Mining Lease Number: 5652.
C.P.R. and Truck Mine.
Registered Trade Name: Cascade Coal.

CASTOR AREA

John Tyrlik—Mine No. 251

Mine Office: Heisler, Alberta.
Mine Manager: J. Tyrlik.
Mine Surveyor: David Jones.
Overman: J. Tyrlik.
Thickness of Seam: 4 ft. 8 ins.
Thickness of Cover: 62 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6½ ft. Depth of Slope: 153 ft.
Location of Mine: L.S. 9, Sec. 28, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5530.
Truck Mine.
Registered Trade Name: Diamond G. Coal.

James Chiswick-Mine No. 291

Mine Office: Gadsby, Alberta.
Mine Manager: James Chiswick.
Mine Surveyor: David Jones.
Foreman: James Chiswick.
Thickness of Seam: 4½ ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of L.S. 11 and 6, Sec. 28, Twp. 39, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 5093.
Truck Mine.
Registered Trade Name: Sunset Coal.

J. R. James & E. J. Boyce—Mine No. 447

Authorized Capital: $4,000.00.
Mine Office: Foresburg. Alberta.
Mine Surveyor: David Jones.
Overman: A. J. James.
Mine Manager: J. R. James.
Thickness of Seam: 8 ft.
Thickness of Cover: 26 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 5 ft. x 6 ft. Depth of Shaft: 38 ft.
Location of Mine: L.S. 13, Sec. 28, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5416.
C.N.R. and Truck Mine.
Registered Trade Name: Ever Ready Coal.

Komperdo & Partners—Mine No. 615

Mine Office: Heisler. Alberta.
General Manager: John Komperdo.
Mine Manager: J. Bowie.
Thickness of Seam: 5 ft.
Thickness of Cover: 80 ft.
Mine Surveyor: David Jones.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 70 ft.
Location of Mine: L.S. 13, Sec. 22, Twp. 42, Rge. 17, W. 4th Mer.

Coal Mining Lease Number: 5429.
C.N.R. and Truck Mine.
Registered Trade Name: Riverside Coal.

O. V. Remillard—Mine No. 902

Mine Office: Castor, Alberta.
Mine Manager: O. V. Remillard.
Mine Surveyor: David Jones.
Overman: O. V. Remillard.
Thickness of Seam: 5 ft.
Thickness of Cover: 65 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 6 ft. Depth of Slope: 127 ft.
Location of Mine: L.S. 15 and 16, Sec. 33, Twp. 37, Rge. 14, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 186.
Truck Mine.
Registered Trade Name: Remillard Coal.

D. H. Wiltse, A. J. Cordell & T. Pilsworth
Mine No. 953

Mine Office: Forestburg, Alberta.
Mine Manager: D. Wiltse.
Mine Surveyor: David Jones.
Thickness of Seam: 6 ft.
Thickness of Cover: 20 ft.
Form of Opening: Strip Mine.
Inclination of Seam: Horizontal.
Location of Mine: S.E. ¼ of L.S. 1, Sec. 32, Twp. 40, Rge. 15, W 4th Mer.
Coal Mining Lease Number: 5479.
Truck Mine.
Registered Trade Name: Battle River Coal.

Alberta Coal Co.—Mine No. 1046

Mine Office: Halkirk, Alberta.
Mine Manager: B. Montgomery.
Mine Surveyor: David Jones.
Foreman: W. Jamieson.
Thickness of Seam: 8 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 6, 7 and 8, Sec. 20, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5433.
Truck Mine.
Registered Trade Name: Cordel Coal.

Charles Strader—Mine No. 1062

Mine Office: Halkirk, Alberta.
Mine Manager: J. Strader.
Mine Surveyor: David Jones.
Overman: James Strader.
Thickness of Seam: 5 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 4, Sec. 17, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 41.
Truck Mine.
Registered Trade Name: Esperanze Coal.

J. H. Ainsworth—Mine No. 1232

Mine Office: Halkirk, Alberta.
Mine Manager: J. H. Ainsworth.
Mine Surveyor: David Jones.
Overman: J. H. Ainsworth.
Thickness of Seam: 6 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 13, Sec. 25, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 478.
Registered Trade Name: Ainsworth Coal.

Daniel Dryden—Mine No. 1237

Mine Office: Halkirk, Alberta.
Mine Manager: Daniel Dryden.
Mine Surveyor: D. Jones.
Overman: Daniel Dryden.
Thickness of Seam: 6 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: L.S. 11, Sec. 8, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease: H.B.C.
Truck Mine.
Registered Trade Name: Ruby Glow Coal.

B. J. Gerla & W. Runge—Mine No. 1248

Mine Office: Donalda, Alberta.
Mine Manager: B. J. Gerla.
Mine Surveyor: David Jones.
Overman: B. J. Gerla.
Thickness of Seam: 5 ft.
Thickness of Cover: 110 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 80 ft.
Location of Mine: L. S. 10 and 11, Sec. 29, Twp. 41, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: S. L. 517.
Truck Mine.
Registered Trade Name: Success Coal.

Joseph Haden—Mine No. 1343

Mine Office: Castor, Alberta.
Mine Manager: Joseph Haden.
Form of Opening: Strip Mine.
Location of Mine: L. S. 3 and 6, Sec. 3, Twp. 38, Rge. 14, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 561.
Registered Trade Name: Haden's Strip Mine Coal.

James Easton—Mine No. 1417

Mine Office: Castor, Alberta.
Mine Manager: James Easton.
Mine Surveyor: David Jones.
Foreman: James Easton.
Thickness of Seam: 5 ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Coal Mining Lease Number: 5013.
Location of Mine: S.W. ¼ of L.S. 14, Sec. 34, Twp. 37, Rge. 14, W. 4th Mer.
Truck Mine.
Registered Trade Name: Burn-Rite Coal.

Thomas Mitchinson—Mine No. 1435

Mine Office: Edberg, Alberta.
Mine Manager: Thomas Mitchinson.
Mine Surveyor: David Jones.
Overman: Thomas Mitchinson.
Thickness of Seam: 4½ ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 30 ft.
Location of Mine: N. and S. ½ of L.S. 6, 11, Sec. 2, Twp. 44, Rge. 19, W. 4th M.
Coal Mining Lease Number: 5122.
Truck Mine.
Registered Trade Name: Rose Bush Coal.

Leonard Buckle—Mine No. 1441

Mine Office: Donalda, Alberta.
Mine Surveyor: David Jones.
Mine Manager: Leonard Buckle.
Overman: L. Buckle.
Thickness of Seam: 10 ft. 10 ins.
Thickness of Cover: 130 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 5, 12, and 13, Sec. 16, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5132.
Truck Mine.
Registered Trade Name: Black Emerald Coal.

William Jones—Mine No. 1572

Mine Office: Donalda.
Mine Manager: W. Jones.
Mine Surveyor: David Jones.
Overman: W. Jones.
Thickness of Seam: 5 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Tunnel.
Location of Mine: N and S. ½ of L.S. 4 and 5, Sec. 28, Twp. 41, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5325.
Truck Mine.
Registered Trade Name: Meeting Creek Coal.

Forestburg Collieries Ltd.—Mine No. 1578

Authorized Capital: $20,000.00.
Name of President: Mayne Reid, K.C.
Names of Directors: M. Reid, William Parlee, R. M. Jenkinson, T. L. Kelce, Ray F. Barrow.
Name of Secretary-Treasurer: Robert M. Jenkinson.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Forestburg, Alberta.
General Manager: John A. Stuart.
Mine Manager: Donald F. MacKinnon.
Mine Surveyor: D. F. MacKinnon.
Thickness of Seam: 5 to 6 ft.
Thickness of Cover: 30 to 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L. S. 15, 16, Sec. 36, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Numbers: 5674, 5750, 5777, 5832, 5833.
C.N.R. and Truck Mine.
Registered Trade Name: Diplomat Coal.

J. J. Mills—Mine No. 1587

Mine Office: Heisler, Alberta.
Mine Manager: J. R. Mills.
Mine Surveyor: David Jones.
Overman: J. R. Mills.
Thickness of Seam: 5to 6 ft.
Thickness of Cover: 90 ft.
Form of Opening: Slope. Size of Slope: 7 ft. x 6 ft. Depth of Slope: 75 ft.
Location of Mine: S.W. and S.E. ¼ L.S. 11 and 12, Sec. 22, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5425.
C.N.R. and Truck Mine.
Registered Trade Name: Eagle Coal.

Stettler Coal Co.—Mine No. 1614

Mine Office: Stettler, Alberta.
General Manager: George M. Milne.
Mine Manager: George M. Milne.
Mine Surveyor: David Jones.
Thickness of Seam: 8 ft.
Thickness of Cover: 48 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 26, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 2900.
C.P.R. and Truck Mine.
Registered Trade Name: All-Fire Coal.

F. N. Wiltse—Mine No. 1634

Mine Office: Halkirk, Alberta.
Mine Manager: F. N. Wiltse.
Mine Surveyor: David Jones.
Foreman: F. N. Wiltse.
Thickness of Seam: 6 ft.
Thickness of Cover: 34 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: W. ½ L.C. 11, Sec. 32, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5564.
C.P.R. and Truck Mine.
Registered Trade Name: Canyon Mine Coal.

J. Bradley & A. O'Brian—Mine No. 1642

Mine Office: Halkirk, Alberta.
Mine Manager: A. O'Brian.
Mine Surveyor: David Jones.
Overman: A. O'Brian.
Thickness of Seam: 6 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 11, 12 and 14, Sec. 25, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 627.
Truck Mine.
Registered Trade Name: Active Coal.

John Lynass—Mine No. 1650

Mine Office: Forestburg, Alberta.
Mine Manager: C. Lassiter.
Mine Surveyor: David Jones.
Foreman: C. Lassiter.
Thickness of Seam: 8 ft.
Thickness of Cover: 26 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 9, Sec. 32, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5559.
C.N.R. and Truck Mine.
Registered Trade Name: Golden Glow Coal.

John C. Reed & Son—Mine No. 1677

Mine Office: Forestburg, Alberta.
Mine Manager: John Reed.
Overman: John Reed.
Thickness of Seam: 8 ft.
Thickness of Cover: 34 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit. Size of Shaft: 5 ft. x 5 ft. Depth of Shaft: 43 ft.
Location of Mine: L.S. 1, Sec. 2, Twp. 41, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 5658.
Truck Mine.
Registered Trade Name: B.B. Coal.

N. MacPherson & D. Kroetch—Mine No. 1689

Mine Office: Heisler, Alberta.
Mine Manager: N. MacPherson.
Mine Surveyor: David Jones.
Overman: N. MacPherson.
Thickness of Seam: 7 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. x 6 ft. Depth of Slope: 15 ft.
Location of Mine: L.S. 8, Sec. 21, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 685.
Truck and C.N.R. Mine.
Registered Trade Name: Black Jade Coal.

A. J. Shannon & J. Lang—Mine No. 1691

Mine Office: Halkirk. Alberta.
Mine Manager: John Lang.
Mine Surveyor: David Jones.
Foreman: John Lang.
Thickness of Seam: 4½ ft.
Thickness of Cover: 17 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 11, and 12, Sec. 19, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 673.
Truck Mine.
Registered Trade Name: S. and L. Coal.

M. Muyres and Sons—Mine No. 1697

Mine Office: Forestburg, Alberta.
Mine Manager: M. Muyres.
Overman: R. Muyres.
Thickness of Seam: 6 ft.
Thickness of Cover: 27 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 5 ft. x 6 ft. Depth of Shaft: 27 ft.

Location of Mine: L.S. 7 and 10, Sec. 32, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5752.
Truck Mine.
Registered Trade Name: Muyres Coal.

Joseph Hronek, Sr.—Mine No. 1698

Mine Office: Halkirk, Alberta.
Mine Manager: A. Neilson.
Foreman: A. Neilson.
Form of Opening: Strip Mine.
Registered Trade Name: Good View Coal.

Dolanz, Dolanz, and Strickland—Mine No. 1702

Authorized Capital: $20,000.00.
Mine Office: Heisler, Alberta.
Mine Manager: T. Strickland.
Mine Surveyor: David Jones.
Overman: I. Dolanz.
Thickness of Seam: 12 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 130 ft.
Location of Mine: L.S. 3 and 4, Sec. 27, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 692.
C.N.R. and Truck Mine.
Registered Trade Name: Palace Coal.

Michael & Martin Wisla—Mine No. 1703

Mine Office: Rosalind, Alberta.
Mine Manager: Martin Wisla.
Overman: Martin Wisla.
Form of Opening: Slope.
Location of Mine: L.S. 1, 8, and 9, Sec. 7, Twp. 43, Rge. 17, W. 4th Mer.
Registered Trade Name: Wisla Coal.

Filipenko Brothers—Mine No. 1711

Mine Office: Stettler, Alberta.
Mine Manager: Nicholas Filipenko.
Foreman: Nicholas Filipenko.
Form of Opening: Strip Mine.
Location of Mine: N ½ 11, 13, S ¼ 14, 15, Sec. 25, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 627,690.

Wisla Brothers—Mine No. 1713

Mine Manager: M. Wisla.
Mine Surveyor: David Jones.
Overman: Michael Wisla.
Thickness of Seam: 3 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Location of Mine: L. S. 1 and 2, Sec. 8, Twp. 43, Rge. 17, W 4th Mer.
Coal Mining Lease Number: H.B.C. 152.
Registered Trade Name: Rosalind Coal.

L. Ose—Mine No. 1718

Mine Office: Rosalind, Alberta.
Mine Manager: W. A. Jones.
Foreman: W. A. Jones.
Mine Surveyor: No appointment of Surveyor as yet.
Thickness of Seam: 10 ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 9, 10, 15, 16, Sec. 29, Twp. 42, Rge. 17. W. 4th Mer.
Coal Mining Lease Number: 5969.
Registered Trade Name: Centennial Coal.

CHAMPION AREA

G. Rhodes—Mine No. 136

Authorized Capital: $9,000.00.
Mine Office: Champion. Alberta.
Mine Manager: Cecil Rhodes.
Mine Surveyor: J. F. Hamilton.
Overman: Cecil Rhodes.
Thickness of Seam: 3 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 180 ft.
Location of Mine: L.S. 7, Sec. 8, Twp. 15, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Therriault Coal.

C. Travaglia—Mine No. 1137

Authorized Capital: $4,000.00.
Mine Office: Champion, Alberta.
Mine Manager: Carlo Travaglia.
Mine Surveyor: Mr. Hamilton.
Overman: R. R. Brown.
Thickness of Seam: 4 ft.
Thickness of Cover: 75 ft.
Form of Opening: Shaft.
Location of Mine: Pts. L.S. 2 and 3, Sec. 4, Twp. 16, Rge. 23, W. 4th Mer.
Coal Mining Lease Numbers: 5533 and 5738.
Truck Mine.
Registered Trade Name: Smith Coal.

P. Fontana & Sons—Mine No. 1509

Mine Office: Champion, Alberta.
Mine Manager: Peter Fontana.
Mine Surveyor: J. F. Hamilton.
Overman: P. Fontana.
Thickness of Seam: 4 ft.
Thickness of Cover: 65 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5½ ft. x 5½ ft. Depth of Slope: 240 ft.
Location of Mine: L.S. 15, Sec. 33, Twp. 15, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5290.
Truck Mine.
Registered Trade Name: Champion Coal.

Mike Popovich—Mine No. 1565

Authorized Capital: $8,000.00.
Mine Office: Champion, Alberta.
Mine Manager: Mike Popovich.
Mine Surveyor: J. F. Hamilton.
Thickness of Seam: 3½ ft.
Thickness of Cover: 52 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 125 ft.
Location of Mine: L.S. 9, Sec. 8, Twp. 16, Rge. 23, W. 4th Mer.
Truck Mine.
Registered Trade Name: Ellis Coal.

Wm. Russell—Mine No. 1717

Mine Office: Carmangay, Alberta.
Mine Manager: E. Zoback.
Overman: E. Zoback.
Location of Mine: L.S. 1 and 2, Sec. 36, Twp. 14, Rge. 22, W 4th Mer.
Coal Mining Lease Number: 5862.
Registered Trade Name: Butte Jewel Coal.

COALSPUR AREA

Sterling Collieries Ltd.—Mine No. 769

Authorized Capital: $500,000.00.
Name of President: C. B. Munson.
Names of Directors: C. B. Munson, S. W. Field, W. F. Stevenson, W. Roberts, F. J. Mitchell.
Name of Secretary-Treasurer: F. J. Mitchell.
Head Office: 912-913 McLeod Building, Edmonton, Alberta.
Mine Office: Sterco, Alberta.
General Manager: W. F. Stevenson.
Mine Manager: R. G. Walker.
Mine Surveyor: A. A. Fraser.
Foremen: F. Roscovich, W. A. Allen, J. L. Long.
Thickness of Seam: 17 ft. to 60 ft.
Thickness of Cover: 15 ft. to 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.

Location of Mine: L.S. 12, Sec. 35, Twp. 47, Rge. 20, W. 5th Mer.
Coal Mining Lease Numbers: 5662, 5663.
Mine Located on C.N.R.
Registered Trade Name: Sterling Coal.

Foothills Collieries Ltd.—Mine No. 771

Authorized Capital: $300,000.00.
Name of President: A. E. Windatt.
Names of Directors: E. H. Bennest, K.C., H. Wallace, Rt. Hon. Lord Gort.
Mine Office: Foothills, Alberta.
General Manager: A. E. Windatt.
Mine Manager: William Morris.
Mine Surveyor: L. C. Stevens.
Overman: E. Griffiths, Walter Smillie.
Firebosses: J. E. Mitchell, John Hogg, Evan Richards, R. Butts, H. Rhodes, J. Smillie.
Thickness of Seam: 8 ft.
Thickness of Cover: 0 to 800 ft.
Inclination of Seam: 22 degrees.
Form of Opening: Slope. Size of Slope: 10 ft. x 12 ft. Depth of Slope: 2350 ft.
Location of Mine: L.S. 2, 7, 10, and 15, Sec. 24, Twp. 47, Rge. 20, W. 5th Mer.
Coal Mining Lease Number: 5344.
Mine Located on C.N.R.
Registered Trade Name: Foothills Coal.

Lakeside Coals Ltd.—Mine No. 775

Authorized Capital: $500,000.00.
Name of President: B. J. Kern.
Names of Directors: A. Booker, R. Trumble, L. Kerr.
Name of Secretary-Treasurer: L. Kerr.
Mine Office: Robb, Alberta.
General Manager: Roy Trumble.
Mine Manager: William Slominski.
Mine Surveyor: L. C. Stevens.
Foreman: Bob Stratton.
Blasters: B. Stratton, W. Birrel.
Thickness of Seam: 6 ft. to 10½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: 38 degrees.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ of L.S. 12, Sec. 14, Twp. 49, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5318.
Mine Located on C.N.R.
Registered Trade Name: Balkan Coal.

McLeod River Hard Coal Co. (1941) Ltd. Mine No. 846

Authorized Capital: $50,000.00.
Name of President: Norman R. Whittall.
Names of Directors: F. Ronald Graham, George Kidd, Fred B. Brown, John A. Boyd, Harry R. Plommer.
Name of Secretary-Treasurer: S. V. Isaacson.
Head Office: Naniamo, B.C.
Mine Office: Mercoal, Alberta.
General Manager: Harry R. Plommer.
Mine Manager: L. G. Chavignaud.
Mine Surveyor: L. G. Chavignaud.
Overman: J. Richester.
Firebosses: R. Bositte, J. Parry, J. Lidgett, W. James, H. Dombreski, G. McMurty, J. Keef, A. McIntyre, E. Price, W. Mazer, D. McKay, J. Herpshaw, K. Wheat.
Thickness of Seam: 11 ft.
Thickness of Cover: 0 to 800 ft.
Inclination of Seam: 20 degrees to 45 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 1800 ft.
Location of Mine: L.S. 4, Sec. 25, Twp. 48, Rge. 22, W. 5th Mer.
Coal Mining Lease Number: 1605.
Mine Located on C.N.R.
Registered Trade Name: McLeod River Hard Coal.

Coal Valley Mining Co. Ltd.—Mine No. 1002

Authorized Capital: $1,000,000.00.
Name of President: C. B. Munson.
Names of Directors: C. B. Munson, W. F. Stevenson, S. W. Firld, F. J. Mitchell.
Name of Secretary-Treasurer: W. C. Willetts.
Head Office: 705 McLeod Building, Edmonton, Alberta.
Mine Office: Coal Valley, Alberta.
General Manager: W. F. Stevenson.
Mine Manager: A. A. Fraser.
Mine Surveyor: A. A. Fraser.
Thickness of Seam: 300 ft.
Thickness of Cover: 0 to 110 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Strip Mine.
Location of Mine: W. ½ of L.S. 10, Sec. 25, Twp. 47, Rge. 20, W. 5th Mer.
Mine Located on C.N.R.
Coal Mining Lease Number: 5415.
Registered Trade Name: Cova Coal.

North Western Coal and Oil Ltd.—Mine No. 1157

Name of President: F. E. Reuben.
Names of Directors: F. E. Reuben, R. Peterson, A. Hanna.
Name of Secretary: A. Hanna.
Name of Treasurer: Wm. F. Reid.
Head Office: Toronto, Ontario.
Mine Office: Robb, Alberta.
General Manager: D. B. Young.
Mine Manager: Dan Jones.
Mine Surveyor: L. C. Stevens.
Thickness of Seam: 22 ft.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: 36 degrees.
Form of Opening: Strip Mine.
Location of Mine: Pts. Secs. 15, 16, 21, 22, Twp. 49, Rge. 21, W. 5th Mer.
Coal Mining Lease Number: 5757, 5758.
Registered Trade Name: Bryan Mountain Hard Coal.

King Coal and Lumber Co.—Mine No. 1692

Authorized Capital: $20,000.00.
Name of President: H. H. Croxton.
Names of Directors: B. D. Croxton.
Name of Secretary-Treasurer: H. E. Croxton.
Head Office: 10226-116 Street, Edmonton, Alberta.
Mine Office: Coalspur, Alberta.
Mine Manager: J. Reed.
Mine Surveyor: David Jones.
Thickness of Seam: 9½ ft.
Inclination of Seam: 55 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 10 ft. Depth of Slope: —.
Location of Mine: L.S. 7, Sec. 33, Twp. 48, Rge. 21, W. 5th Mer.
Coal Mining Lease Numbers: 5724, 5725.
C.N.R. and Truck Mine.
Registered Trade Name: King Coal.

CROWSNEST AREA

West Canadian Collieries Ltd.—Mine No. 87

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Names of Directors: F. Blondel, P. Decoster, Mr. Beaubien, Mr. Dunning, Mr. Bernard, Mr. Brusset.
Name of Secretary: Mr. Labyt.
Head Office: 833 Salisbury House, London Wall, London, England.
Mine Office: Bellevue, Alberta.
Mine Manager: M. H. Congdon.
Mine Surveyor: R. Glover.
Overmen: D. Rees, D. Hutton, A. Goodwin, C. Young, A. Wright, C. Long.
Firebosses: A. Grant, J. McLeod, J. Radford, A. Emmerson, W. Alexander, J. Bozich, J. Senycz, K. Wollney, E. Coates, J. Michayluk, C. Olitch.
Thickness of Seam: 0 to 20 ft.
Thickness of Cover: 0 to 1000 ft.
Inclination of Seam: 0 to 90 degrees.

Form of Opening: Adit.
Location of Mine: L.S. 10, Sec. 20, Twp. 7, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: M.S. 231.
C.P.R. and Truck Mine.
Registered Trade Name: Bellevue Coal.

International Coal & Coke Co. Ltd.—Mine No. 88

Authorized Capital: $3,000,000.00.
Name of President: H. A. Howard.
Names of Directors: H. A. Howard, J. J. McIntyre, J. Black, G. Warren, R. Anderson, J. Johanson, J. Buchanan. R. McNaughton, G. A. Wallinger.
Name of Secretary: P. A. Dickieson.
Name of Treasurer: J. Emmerson.
Mine Office: Coleman, Alberta.
General Manager: J. J. McIntyre.
Mine Manager: W. B. Fraser.
Mine Surveyor: H. E. Hewitt.
Overmen: J. Marconi, E. Hill, G. Marconi.
Firebosses: J. Hillary, J. V. Fraser, J. P. McIntyre, L. C. Richards, A. Jones, J. Moore, Sr., P. Topak, L. Hotte, A. J. Phillips, V. Brown, R. Woods, J. Lowe, T. Donaldson, B. Fontana, T. DeCocco.
Thickness of Seam: 5 ft. to 12 ft.
Thickness of Cover: 2000 ft.
Inclination of Seam: 30 degrees.
Form of Opening: Slope. Size of Slope: 12 ft. x 10 ft. Depth of Slope: 3400 ft.
Location of Mine: L.S. 11, Sec. 8, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: 2886.
C.P.R. and Truck Mine.
Registered Trade Name: International Coal.

Hillcrest-Mohawk Collieries Ltd.—Mine No. 133

Authorized Capital: $1,250,000.00.
Name of President: J. Gordon.
Names of Directors: E. Richardson, J. Kemp, F. Turville, F. Harquail, Mrs. E. Johnson.
Name of Secretary: Frank Harquail.
Name of Treasurer: E. Richardson.
Mine Office: Bellevue, Alberta.
General Manager: Frank Harquail.
Mine Manager: Wm. Goodwin.
Mine Surveyor: A. Halldorson.
Overmen: J. Ironmonger, J. Shearer.
Firebosses: J. McDade, L. Louini, B. Tamborini, A. Craig, F. White, J. Gresl, and M. Blanchini.
Thickness of Seam: 8 ft.
Thickness of Cover: 800 ft.
Inclination of Seam: 85 degrees.
Form of Opening: Slope.
Location of Mine: S.E. ¼ of Sec. 21, Twp. 7, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: C.L.S.
C.P.R. and Truck Mine.
Registered Trade Name: Hillcrest Mohawk Coal.

Beaver Mines Coal Co.—Mine No. 199

Authorized Capital: $10,000.00.
Mine Office: Beaver Mines, Alberta.
Mine Manager: J. Fisher.
Mine Surveyor: F. Utley.
Overman: J. Fisher.
Thickness of Seam: 4 ft. to 7 ft.
Thickness of Cover: 70 ft.
Inclination of Seam: 30 degrees to 40 degrees.
Form of Opening: Drift.
Location of Mine: L.S. 10, Sec. 3, Twp. 6, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: 5668.
Mine Located on C.P.R.
Registered Trade Name: Beaver Mine Coal.

McGillivray Creek Coal & Coke Co. Mine No. 204

Authorized Capital: $3,000,000.00.
Name of President: H. A. Howard.
Names of Directors: H. A. Howard, A. L. Johannson, R. G. Anderson, G. A. Wallinger, R. R. McNaughton, G. M. Warren, H. A. Thoeny.
Name of Secretary-Treasurer: S. C. Short.
Mine Office: Coleman, Alberta.
General Manager: J. J. McIntyre.
Mine Manager: A. Wilson.
Mine Surveyor: A. E. Graham.
Overmen: E. Allen, W. P. Lonsbury, W. Anderson.
Firebosses: A. Beveridge, R. Campbell, A. Galbraith, W. Hopkins, M. Kubica, R. Morris, J. Ondrik, A. Panek, R. Parry, J. Sikora, H. Unwin, E. Krywolt, L. Vasek.
Thickness of Seam: No. 2 Seam—9 ft. No. 4 Seam—4½ ft.
Thickness of Cover: 0 to 2400 ft.
Inclination of Seam: 35 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 4500 ft.
Location of Mine: S.W. ¼ of L.S. 2, Sec. 17, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Numbers: 305 S.L., 5501, 5673.
C.P.R. and Truck Mine.
Registered Trade Name: McGillivray Creek Coal.

West Canadian Collieries Ltd.—Mine No. 396

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Names of Directors: Mr. Bernard, Mr. Blondel, Mr. Brusset, Mr. Decoster, Mr. Dunning, Mr. Beaubien.
Name of Secretary: G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London, England.
Mine Office: Blairmore, Alberta.
General Manager: J. A. Brusset.
Mine Manager: T. E Morgan.
Mine Surveyor: D. T. Brown.
Overman: M. Hamilton, L. Hucik, R. Tongue, J. Davies.
Firebosses: G. Gibson, A. Rae, A. Tiberg, C. Miller, J. McIsaac, A. Avons, T. Zupan, T. Ambrosio, J. Patterson, S. Patterson, J. Deidzic, J. Sharreta, I. Walker, R. Draper, V. Blas, R. Blake,
Thickness of Seam: 5 ft. to 16 ft.
Thickness of Cover: 0 to 1000 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Adit.
Location of Mine: L.S. 10, Sec. 2, Twp. 8, Rge. 4, W. 5th Mer.
C.P.R. and Truck Mine.
Registered Trade Name: Greenhill Coal.

West Canadian Collieries Ltd.—Mine No. 1584

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Names of Directors: F. Blondel, P. Decoster, deGaspe Beaubien, C. A. Dunning, E. Bernard, J. A. Brusset.
Name of Secretary: G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London, England.
Mine Office: Bellevue, Alberta.
Mine Manager: N. Melnyk.
General Manager: J. A. Brusset.
Mine Surveyor: R. Glover.
Overmen: R. Blake, C. McDonald.
Firebosses: K. McDonald, C. Dambois, W. Donaldson, J. Morris.
Thickness of Seam: 6 ft. to 16 ft.
Thickness of Cover: 100 ft. to 800 ft.
Inclination of Seam: 14 degrees to 70 degrees.
Form of Opening: Adit.
Location of Mine: L.S. 15, Sec. 31, Twp. 6, Rge. 3, W. 5th Mer.

Coal Mining Lease Numbers: M.S. 94, M-174.
C.P.R. Mine.
Registered Trade Name: Adanac Coal.

Hillcrest-Mohawk Collieries Ltd.—Mine No. 1695

Authorized Capital: $1,250,000.00.
Name of President: J. Gordon.
Names of Directors: E. Richardson, J. Colin Kemp, F. Turville, F. J. Harquail, Mrs. E. Johnson.
Name of Secretary: F. J. Harquail.
Name of Treasurer: E. Richardson.
Mine Office: Bellevue, Alberta.
Mine Manager: Otto Bohle.
General Manager: Henry Miller.
Mine Surveyor: A. Halldorson.
Foremen: L. Siega, J. Patterson, T. Dunlop.
Blaster: T. Craig.
Thickness of Seam: 200 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Vertical.
Form of Opening: Strip Mine.
Location of Mine: Twp. 7, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: 5710, Freehold.
C.P.R. and Truck Mine.
Registered Trade Name: Tent Mountain Coal.

C. Shultz and L. Shultz—Mine No. 1710

Mine Office: Coleman.
Mine Manager: C. Shultz.
Foreman: L. Shultz.
Thickness of Seam: 10 ft. to 35 ft.
Thickness of Cover: 5 ft. to 25 ft.
Inclination of Seam: 50 degrees.
Form of Opening: Strip Mine.
Location of Mine: Sec. 23 and 26, Twp. 10, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: 5826.
Truck Mine.
Registered Trade Name: Race Horse Coal.

DRUMHELLER AREA

Rosedale Collieries Ltd.—Mine No. 346

Authorized Capital: $600,000.00.
Name of President: J. R. Brodie.
Names of Directors: J. R. Brodie, F. H. Nord, J. F. Harvie, C. H. Doerr.
Name of Secretary-Treasurer: J. F. Harvie.
Head Office: 909 Lancaster Building, Calgary, Alberta.
Mine Office: Rosedale, Alberta.
General Manager: R. Richards.
Mine Manager: T. Rappel.
Mine Surveyor: R. Richards.
Overmen: R. Bradshaw, Wm. Jones.
Firebosses: J. Zambo, S. Berlando, F. Kubicek, J. Ewing, A. Sladek, W. Roberts, H. Sladek, D. Colley, B. Henry.
Thickness of Seam: 3 ft. to 6½ ft.
Thickness of Cover: 450 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 11 ft. x 15 ft. Depth of Shaft: 45 ft.
Location of Mine: L.S. 14, Sec. 28, Twp. 28, Rge. 19, W. 4th Mer.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Rosedale Coal.

Midland Coal Mining Co. Ltd. Mine No. 367

Authorized Capital: $50,000.00.
Name of President: Mrs. S. L. McMullen.
Names of Directors: Mrs. S. L. McMullen, W. R. Sandercock, S. G. McMullen.
Name of Secretary: S. G. McMullen.
Mine Office: Drumheller, Alberta.
Mine Manager: W. Hibbert.
Mine Surveyor: A. G. Macaulay.
Overmen: A. K. Burrell, H. Looten.
Firebosses: A. Armstrong, G. Biro, M. Bobrosky, J. Evans, J. Gallager, T. Gibson, E. Harris, W. Halowatiuk, H. Hubert, J. Iwanichuk, J. Jubb, A. McKinnon, W. Price.
Thickness of Seam: 5 ft.
Thickness of Cover: 550 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 19 ft. Depth of Shaft: 135 ft.
Location of Mine: L.S. 14, Sec. 9, Twp. 29, Rge. 20, W. of the 4th Mer.
Coal Mining Lease Numbers: 5068, 5626, 5496.
C.N.R., C.P.R. and Truck Mines.
Registered Trade Name: Midland & Mercury Coal.

Red Deer Valley Coal Co.—Mine No. 402

Authorized Capital: $347,100.00.
Name of President: W. S. Howland.
Names of Directors: W. S. Howland, Mary Howland, Louise Howland, Ward Patterson, U. S. Ansley.
Name of Secretary: Ward Patterson.
Head Office: Drumheller, Alberta.
Mine Office: Nacmine, Alberta.
General Manager: U. S. Ansley.
Mine Manager: I. Potter.
Mine Surveyor: A. G. Macaulay.
Overmen: A. Courterelle, J. Barrie.
Firebosses: I. Folden, C. Levesque, C. Atkinson, P. Goods, H. Roberts, G. Anderson, J. Elliot, N. S. Duncan, G. Cumberford.
Thickness of Seam: 5½ ft.
Thickness of Cover: 190 ft. to 550 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 11 ft. x 7 ft. Depth of Slope: 650 ft. at 17 degrees.
Location of Mine: Sec. 7, Twp. 29, Rge. 20, W 4th Mer.
Coal Mining Lease Numbers: 5196, 5239, 5556, 5629.
C.P.R., C.N.R., and Truck Mine.
Registered Trade Name: Glocoal.

Century Coals Ltd.—Mine No. 422

Name of President: Brig. L. Patrick.
Head Office: Calgary, Alberta.
Mine Office: Drumheller, Alberta.
General Manager: Brig. L. Patrick.
Mine Manager: A. C. Hnatyshyn.
Mine Surveyor: A. C. Hnatyshyn.
Overmen: D. Mayoh, R. Raisbeck.
Firebosses: W. Morse, R. Halbert, M. Trevethin, R. Keith, A. Thomson, J. Oxbury, and W. Taylor.
Thickness of Seam: 4 ft. 9 inches.
Thickness of Cover: 600 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 12 ft. x 20 ft. Depth of Shaft: 166 ft.
Location of Mine: L.S. 5, Sec. 9, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 2379.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Commander Coal.

Rosedale Collieries Ltd.—Mine No. 436

Authorized Capital: $600,000.00.
Name of President: J. R. Brodie.
Names of Directors: J. R. Brodie, F. H. Nord, F. Harvie, C. H. Doerr.
Name of Secretary-Treasurer: J. F. Harvie.
Head Office: 909 Lancaster Building, Calgary, Alberta.
Mine Office: Aerial, Alberta.
General Manager: R. Richards.
Mine Manager: Rappel.

Mine Surveyor: R. Richards.
Overman: S. Appleby.
Firebosses: E. Davies, I. Radocy, P. Kenakin, P. Ludwig, M. Morel.
Thickness of Seam: 6½ ft.
Thickness of Cover: 500 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: S.E. ¼ of L.S. 7, Sec. 28, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Numbers: 5104, 5105.
C.N.R. and C.P.R. Mine.
Registered Trade Name: Star Coal.

Newcastle Collieries Ltd.—Mine No. 620

Authorized Capital: $300,000.00.
Name of President: W. Gouge.
Names of Directors: J. Gouge, W. Gouge, J. Cook, R. E. Coyle.
Name of Secretary-Treasurer: J. Gouge.
Mine Office: Drumheller, Alberta.
General Manager: J. Gouge.
Mine Manager: T. Campbell.
Overmen: J. McCuthcheon, A. K. Burrell.
Firebosses: A. Armstrong, W. B. Henry, J. Whitehead, E. Harris, C. Dunn, C. Currie.
Thickness of Seam: 5 ft.
Thickness of Cover: 500 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 10 ft. x 12 ft. Depth of Shaft: 100 ft.
Location of Mine: S.W. ¼ of Sec. 3, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Numbers: 5046, 5052.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Newcastle Coal.

Maple Leaf Coal Co. Ltd.—Mine No. 728

Authorized Capital: $100,000.00.
Name of President: D. H. Smith.
Names of Directors: D. H. Smith, N. F. Priestley, E. B. Chown, Jake Frey, C. A. Fawcett.
Name of Secretary-Treasurer: N. F. Priestley.
Mine Office: Drumheller, Alberta.
General Manager: D. H. Smith.
Mine Manager: J. N. Clyne.
Mine Surveyor: A. G. Macaulay.
Firebosses: F. Kane, P. Timm, G. Unsworth.
Thickness of Seam: 5 ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 13, Sec. 32, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5303.
C.P.R. and C.N.R. Mine.
Registered Trade Name: National Coal.

Brilliant Coal Co.—Mine No. 1258

Authorized Capital: $300,000.00.
Name of President: J. A. Sandino.
Mine Office: Drumheller, Alberta.
General Manager: J. A. Sandino.
Mine Manager: R. Dunn.
Mine Surveyor: L. C. Stevens.
Overman: Jas. Saunt.
Firebosses: T. McNeill. R. Stocco, J. March, F. Elkes and A. Armstrong.
Thickness of Seam: 6 ft.
Thickness of Cover: 400 to 450 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 120 ft. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 450 ft.
Location of Mine: L. S. 14, Sec. 10, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5282.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Brilliant Coal.

Saskatchewan Federated Co-ops Ltd.
Mine No. 1299

Authorized Capital: $10,000,000.00.
Name of President: G. Urwin.
Names of Directors: G. P. Baker, L. G. Bright, J. A. Bryson, J. B. Bryson, D. Burton, O. A. Herde, H. L. Lawrence, L. L. Lloyd, W. E. Mills, C. R. Smith, Geo. Urwin, H. C. Watson.
Name of Secretary: H. L. Fowler.
Name of Treasurer: E. T. Mowbrey.
Head Office: 211 Avenue D, North, Saskatoon, Sask.
Mine Office: East Coulee, Alberta.
Mine Manager: J. M. Clyne.
Mine Surveyor: A. G. Macaulay.
Overman: R. Stratton.
Firebosses: W. McFegan, F. Kane, M. Honeyman, R. Marshall, P. Timm, J. Page.
Thickness of Seam: 6 ft.
Thickness of Cover: 275 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.W. ¼ of Sec. 32, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5349.
C.N.R., and C.P.R. Mine.
Registered Trade Name: Empire Coal.

Saskatchewan Federated Co-ops Ltd.
Mine No. 1421

Authorized Capital: $10,000,000.00.
Name of President: G. Urwin.
Names of Directors: G. P. Baker, L. Bright, J. A. Bryson, J. B. Bryson, D. Burton, O. A. Herde, H. Lawrence, L. L. Lloyd, W. E. Mills, C. R. Smith, G. Urwin, H. Watson.
Name of Secretary: H. L. Fowler.
Name of Treasurer: E. T. Mowbrey.
Head Office: Saskatoon, Saskatchewan.
Mine Office: Drumheller, Alberta.
General Manager: J. Burton.
Mine Manager: J. Robertson.
Overmen: J. Burton, J. Farmer.
Firebosses: E. Farmer, N. Blackett, J. Taylor, J. Chiuppi, F. Ellison, R. Keough.
Thickness of Seam: 4 ft. to 9 ft.
Thickness of Cover: 100 ft. to 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 10 ft. x 15 ft. Depth of Shaft: 89 ft.
Location of Mine: L.S. 13, Sec. 11, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 2458.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Hy-Grade Mine.

Royalty Coal Mining Co.—Mine No. 1436

Name of President: F. Jenson.
Name of Secretary: H. Pedersen.
Mine Office: Wayne. Alberta.
Mine Manager: F. Ellison.
Mine Surveyor: A. Hamilton.
Overman: C. Currie.
Fireboss: H. Looten.
Thickness of Seam: 3½ ft.
Thicknes of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 13, Sec. 20, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 566 A.
Truck Mine.
Registered Trade Name: Royalty Coal.

Century Coals Ltd.—Mine No. 1484

Name of President: L. Patrick.
Head Office: 228 Examiner Building, Calgary, Alberta.
Mine Office: East Coulee, Alberta.
Mine Manager: Hugh Crawford.
Mine Surveyor: A. Hnatyshyn.
Overman: S. Mather.
Firebosses: A. Andrew, F. Kerr, J. Raisbeck, Sr., John Young, A. James, S. Olesky, W. Mather, W. Koehler, P. Premorbko, B. Waggoner.
Thickness of Seam: 5 ft.
Thickness of Cover: 200 ft. to 400 ft.

Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N.W. ¼ of L.S. 13, Sec. 21, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 534A, 601.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: New Wildfire Coal.

Murray Collieries Ldt.—Mine No. 1491

Authorized Capital: $100,000.00.
Name of President: H. Reed.
Names of Directors: H. Reed, and D. C. McVeigh.
Mine Office: East Coulee, Alberta.
Mine Manager: H. G. MacKinnon.
Mine Surveyor: L. C. Stevens.
Overman: Thomas McDonald.
Firebosses: J. Cotterell, W. Shepherd, E. Anderson, R. Anderson, W. Herman, J. McKenzie, R. Niblett, R. Steven, J. Biro.
Thickness of Seam: 5½ ft.
Thickness of Cover: 350 ft. to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Tunnel.
Location of Mine: S.E. ¼ of Sec. 29, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number. C.P.R. 539.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: New Murray Coal.

Western Gem and Jewel Collieries—Mine No. 1493

Authorized Capital: $750,000.00.
Name of President: Alex Robertson.
Names of Directors: S. Robertson, D. Robertson, A. Albright, R. Northey, J. T. A. Gamble, A. Robertson.
Name of Secretary-Treasurer: H. H. Albright.
Head Office: 607 Lancaster Building, Calgary, Alberta.
Mine Office: Cambria, Alberta.
General Manager: A. Robertson.
Mine Manager: Nat Howells.
Mine Surveyor: John Robertson.
Overman: C. Bradley.
Firebosses: J. Crawford, W. Allan, F. Zapital, R. Niblett, M. Vandekinder.
Thickness of Seam: 5 ft.
Thickness of Cover: 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: L.S. 6, Sec. 15, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5541.
C.P.R., and C.N.R. Mine.
Registered Trade Name: Cambrian Coal.

Aetna Coals Limited—Mine No. 1511

Authorized Capital: $50,000.00.
Name of President: J. O'Dwyer.
Names of Directors: J. O'Dwyer, M. A. O'Dwyer.
Name of Secretary-Treasurer: M. A. O'Dwyer.
Head Office: Wayne, Alberta.
Mine Office: Cambria, Alberta.
General Manager: M. A. O'Dwyer.
Mine Manager: W. Sarsfield.
Fireboss: M. Ramsay.
Thickness of Seam: 7 ft.
Thickness of Cover: 0 to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 14 ft. x 7 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 1, Sec. 22, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5039.
C.P.R. and C.N.R. Mine.
Registered Trade Name: Aetna Coal.

E. R. James & O. Kliche—Mine No. 1515

Mine Office: East Coulee, Alberta.
Overman: E. R. James.
Mine Surveyor: D. Jones.
Form of Opening: Slope.
Location of Mine: L.S. 10, 11, 14 and 15, Sec. 22, Twp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5279.
Registered Trade Name: Empress Coal.

The Minute Coal Co.—Mine No. 1520

Mine Office: Drumheller, Alberta.
General Manager: J. A. McKenzie.
Mine Manager: J. Sinclair.
Mine Surveyor: G. Macaulay.
Overman: J. Gammie.
Thickness of Seam: 4 ft.
Thickness of Cover: 150 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: L.S. 3, 6, and 11, Sec. 14, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 2793.
C.P.R., C.N.R., and Truck Mine.
Registered Trade Name: Good Quality Coal.

Wayne Coal Co. Ltd.—Mine No. 1570

Authorized Capital: $10,000.00.
Name of President: J. J. O'Dwyer.
Names of Directors: J. J. O'Dwyer and M. A. O'Dwyer.
Name of Secretary-Treasurer: M. A. O'Dwyer.
Head Office: Wayne, Alberta.
Mine Office: Cambria, Alberta.
General Manager: J. J. O'Dwyer.
Mine Manager: R. Stevenson.
Mine Surveyor: A. Hamilton.
Overman: R. Stevenson.
Thickness of Seam: 8 ft.
Thickness of Cover: 30 ft. to 350 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 14 ft. x 8 ft. Depth of Slope: 140 ft.
Location of Mine: N.E. ¼ of L.S. 8, Sec. 7, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: Freehold.
C.P.R., C.N.R., and Truck Mine.
Registered Trade Name: Sovereign Coal.

Monarch Coal Mining Co. Ltd.—Mine No. 1573

Authorized Capital: $311,500.00.
Name of President: E. A. Lovett.
Names of Directors: E. A. Lovett, H. R. Narraway, O. I. Gilbert, T. C. Boyd, D. MacNeil.
Name of Secretary-Treasurer: H. R. Narraway.
Head Office: 1503 - 15th Avenue West, Calgary, Alberta.
Mine Office: East Coulee, Alberta.
General Manager: E. A. Lovett.
Mine Manager: T. Smith.
Mine Surveyor: T. Smith.
Overman: J. Harries.
Firebosses: A. Black, R. Cowan, J. Barich, J. Tennant, A. Wolff, F. Simpson, M. Van De Kinder, W. Menzies.
Thickness of Seam: 5 ft.
Thickness of Cover: 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 1, Sec. 20, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 587.
C.P.R., C.N.R., and Truck Mine.
Registered Trade Name: Western Monarch Coal.

Arcadia Coal Mines Ltd.—Mine No. 1589

Authorized Capital: $50,000.00.
Name of Director: Peter Carls.
Name of Secretary: J. Milvain.
Head Office: 405 MacLean Block, Calgary, Alberta.
Mine Office: Willow Creek, Alberta.
General Manager: Peter Carls.
Mine Manager: Allan Hamilton.
Mine Surveyor: Allan Hamilton.
Overman: Allan Hamilton.
Thickness of Seam: 5 ft.

Thickness of Cover: 0 to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L. S. 16, Sec. 7, Twp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5432.
C.P.R., C.N.R., and Truck Mine.
Registered Trade Name: Purity Hard Coal.

H. S. Chambers—Mine No. 1599

Mine Office: Drumheller, Alberta.
General Manager: H. S. Chambers.
Mine Surveyor: A. G. Macaulay.
Foreman: H. S. Chambers.
Thickness of Seam: 3 ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12, Sec. 23, Twp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5458.
Truck Mine.
Registered Trade Name: Burn-Brite Coal.

J. Wakaruk & Partners—Mine No. 1655

Name of President: J. Wakaruk.
Names of Directors: F. Zayac, W. Walker, G. Wakaruk.
Name of Secretary-Treasurer: J. Wakaruk.
Mine Office: Drumheller, Alberta.
Mine Surveyor: A. C. Macaulay.
Overman: G. Wakaruk.
Firebosses: J. Wakaruk and Wm. Walker.
Thickness of Seam: 5 ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 65 ft.
Location of Mine: W. and E. ½ of L.S. 9, and 10, Sec. 22, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5593.
Truck Mine.
Registered Trade Name: Cozy Coal.

Allan Livingstone—Mine No. 1666

Mine Office: Drumheller, Alberta.
Mine Manager: A. Livingstone.
Mine Surveyor: A. G. Macaulay.
Foreman: A. Livingstone.
Thickness of Seam: 3 ft. to 5 ft.
Thickness of Cover: 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 16, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 630, 655.
Truck Mine.
Registered Trade Name: Livingstone Coal.

Victor Leonhardt—Mine No. 1668

Mine Office: Drumheller, Alberta.
Mine Manager: Victor Leonhardt.
Mine Surveyor: A. Hamilton.
Foreman: V. Leonhardt.
Thickness of Seam: 2 ft.
Thickness of Cover: 10 ft. to 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L. S. 3 and 6, Sec. 17, Twp. 29, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5897.
Truck Mine.
Registered Trade Name: Lion Coal.

Joy Coal Co. Ltd.—Mine No. 1669

Mine Office: Cambria, Alberta.
General Manager: W. Young.
Mine Manager: W. Kennedy.
Mine Surveyor: A. Hamilton.
Fireboss: J. Kushnir.
Thickness of Seam: 3½ ft.
Thickness of Cover: 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 8 ft. Depth of Slope: 50 ft.
Location of Mine: L.S. 11, 12 and 13, Sec. 18, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 668.
C.P.R., C.N.R., and Truck Mine.
Registered Trade Name: Sunshine Coal.

David H. Jones—Mine No. 1688

Mine Office: Nacmine, Alberta.
Mine Manager: David H. Jones.
Mine Surveyor: A. G. Macaulay.
Foreman: David Jones.
Thickness of Seam: 3 ft.
Thickness of Cover: 8 ft.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of L.S. 8 and 9 of Sec. 24, Twp. 29, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5718.
Truck Mine.
Registered Trade Name: Stockwell Coal.

J. A. McLeod & C. C. Paxton—Mine No. 1700

Authorized Capital: $10,000.00.
Name of President: J. A. McLeod.
Names of Directors: J. A. McLeod and C. C. Paxton.
Name of Secretary-Treasurer: C. C. Paxton.
Head Office: Vancouver, B.C.
Mine Office: Drumheller, Alberta.
Mine Manager: J. A. McLeod.
Mine Surveyor: A. G. Macaulay.
Fireboss: S. D. McLeod.
Thickness of Seam: 4 ft.
Thickness of Cover: 22 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 5 and 6, Sec. 1, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5812.
Truck and C.N.R. Mine.
Registered Trade Name: Twin Hills Coal.

EDMONTON AREA

Ottewell Coal Co.—Mine No. 91

Authorized Capital: $30,000.00.
Mine Office: Clover Bar, Alberta.
Mine Manager: W. J. Ottewell.
Mine Surveyor: L. C. Stevens.
Overman: W. J. Ottewell.
Thickness of Seam: 4 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 9 ft. Depth of Shaft: 85 ft.
Location of Mine: S.W. ¼ L.S. 4, Sec. 17, Twp. 53, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: Ed. Sak. Land.
Truck Mine.
Registered Trade Name: Clover Gem Coal.

Great West Coal Co. Ltd.—Mine No. 99

Authorized Capital: $78,500.00.
Name of President: A. C. Dunn.
Names of Directors: A. C. Dunn, W. S. Cupples, M. M. Jenkinson.
Name of Secretary-Treasurer: T. S. Campbell.
Head Office: 10157 - 102nd Street, Edmonton, Alberta.
Mine Office: Clover Bar, Alberta.
General Manager: A. C. Dunn.
Mine Manager: R. Dalziel.
Mine Surveyor: R. A. Dunn.
Overman: Angus Park.
Firebosses: W. C. Thomson, G. Muir, H. Harpham, J. Smith, T. Mitchinson.
Thickness of Seam: 4 ft. to 6½ ft.

Thickness of Cover: 140 ft. to 210 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope and Shaft. Size of Shaft: 6 ft. x 8 ft. Depth of Shaft: 150 ft. to 180 ft. Size of Slope: 10 ft. x 6 ft. Depth of Slope: 140 ft.
Location of Mine: S.E. ¼ L.S. 10, Sec. 7, Twp. 53, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: M.S. 235.
C.N.R. and Truck Mine.
Registered Trade Name: Black Diamond Coal.

Sundance Mines Ltd.—Mine No. 129

Authorized Capital: $30,000.00.
Name of President: Paul H. Cote.
Names of Directors: L. P. Mousseau and C. Tucker.
Name of Secretary: P. E. Poirier.
Head Office: 526 Tegler Bldg., Edmonton.
Mine Office: Cardiff, Alberta.
General Manager: P. H. Cote.
Mine Manager: C. Christiaens.
Mine Surveyor: L. C. Stevens.
Foreman: C. Christianes.
Thickness of Seam: 8 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.E. ¼ L.S. 16, Sec. 14, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5669.
C.N.R., C.P.R., N.A.R., and Truck Mine.
Registered Trade Name: Suncole.

Banner Coals Ltd.—Mine No. 428

Authorized Capital: $20,000.00.
Name of President: J. B. Starky.
Names of Directors: J. B. Starky and E. A. Mills.
Name of Secretary-Treasurer: E. A. Mills.
Head Office: 10631 - 92nd Street, Edmonton, Alberta.
Mine Office: Carbondale, Alberta.
General Manager: J. B. Starky.
Mine Manager: W. T. Worthington.
Mine Surveyor: W. T. Worthington.
Overman: J. Hutton.
Firebosses: N. Neilsen, J. McMillan, J. Celli. J. W. Wilkinson.
Thickness of Seam: 4 ft.
Thickness of Cover: 175 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 12 ft. x 12 ft. Depth of Shaft: 175 ft.
Location of Mine: L.S. 10, Sec. 8, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: Pat R. Kelly.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name; Penn Coal.

Harry Ebert—Mine No. 720

Mine Office: Calmar, Alberta.
Mine Manager: O. Edwards.
Fireboss: O. Edwards.
Thickness of Seam: 5 ft. 6 ins.
Thickness of Cover: 180 ft.
Inclination of Seam: Horizontal.
Location of Mine: N.W. ¼ Sec. 5, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: Freehold.
Truck Mine.
Registered Trade Name: Rudolph Coal.

Long Coal Co. Ltd.—Mine No. 1098

Authorized Capital: $18,000.00.
Mine Office: Namao, Alberta.
Head Office: 10414 - 95th Street, Edmonton, Alberta.
Mine Surveyor: L. C. Stevens.
Thickness of Seam: 6 ft. to 8 ft.
Thickness of Cover: 98 ft.
Inclination of Seam: Horizontal.
Form of Opening: Tunnel.
Location: L.S. 4, Sec. 31, Twp. 54, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: Pat. G. S. Long.
Truck Mine.
Registered Trade Name: Hardite Coal.

Edmonton Collieries Ltd.—Mine No. 1266

Authorized Capital: $20,000.00.
Name of President: W. Gordon MacKay.
Names of Directors: W. Gordon MacKay, H. W. Layton, C. C. Down.
Name of Secretary-Treasurer: H. W. Layton.
Head Office: 10322 - 105th Street, Edmonton, Alberta.
Mine Office: Namao, Alberta.
General Manager: W. Gordon MacKay.
Mine Manager: Alex Crawford.
Mine Surveyor: L. C. Stevens.
Overman: A. Johnstone.
Fireboss: D. Watson.
Thickness of Seam: 8 ft.
Thickness of Cover: 85 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 875 ft.
Location of Mine: L.S. 14, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 596.
C.N.R., C.P.R., N.A.R., and Truck Mine.
Registered Trade Name: New Black Gem Coal.

Samis Collieries Ltd.—Mine No. 1316

Authorized Capital: $31,000.00.
Head Office: 203 Wallace Building, Edmonton, Alberta.
Mine Office: Namao, Alberta.
General Manager: K. E. Samis.
Mine Manager: A. B. Lister.
Fireboss: S. Samis.
Thickness of Seam: 14 ft.
Thickness of Cover: 55 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 150 ft.
Location of Mine: L.S. 6, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 5539, 2861.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Samis Coal.

Red Hot Coal Co. Ltd.—Mine No. 1357

Authorized Capital: $23,000.00.
Name of President: W. Fridel.
Names of Directors: W. Fridel, J. Lang, K. Bruskiewich, S. Kubeczka, J. Gorski, J. Tworek.
Name of Secretary-Treasurer: J. Lang.
Mine Office: Forest Heights, Alberta.
Mine Manager: H. Simmons.
General Manager: W. Fridel.
Mine Surveyor: L. C. Stevens.
Overman: H. Simmons.
Fireboss: W. Aitken.
Thickness of Seam: 4½ ft.
Thickness of Cover: 185 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 615 ft.
Location of Mine: River Lot 33, Edmonton Settlement.
Coal Mining Lease Number: 5052, M.S. 632.
C.N.R. and Truck Mine.
Registered Trade Name: Red Hot Coal.

Beverly Coal Co. Ltd.—Mine No. 1366

Authorized Capital: $30,000.00.
Name of President: L. H. Davidson.
Names of Directors: L. H. Davidson, A. V. Carlson, T. E. Hays.
Name of Secretary: J. McCartney.
Name of Treasurer: Thos. E. Hays.
Mine Office: Beverly, Alberta.
General Manager: L. H. Davidson.
Mine Manager: A. Williams.
Mine Surveyor: L. C. Stevens.
Overman: A. Williams.

Fireboss: W. Price.
Thickness of Seam: 6 ft.
Thickness of Cover: 150 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 16 ft. x 8 ft. Depth of Shaft: 150 ft.
Location of Mine: L.S. 6, Sec. 13, Twp. 53, Rge.24, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Beverly Coal.

Ottewell Coal Co.—Mine No. 1393

Authorized Capital: $30,000.00.
Mine Office: Clover Bar, Alberta.
Mine Manager: W. J. Ottewell.
Mine Surveyor: L. C. Stevens.
Foreman: C. Ottewell.
Thickness of Seam: 6ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine:
Location of Mine: Block X N.E. ¼, Sec. 36, Twp. 52, Rge. 24, W. 4th Mer.
Registered Trade Name: Marvel Coal.

Pine Creek Collieries—Mine No. 1419

Head Office: 10263 - 112 St., Edmonton, Alberta.
Mine Office: Ellerslie, Alberta.
General Manager: A. R. Voice.
Mine Manager: Steve Fridel.
Thickness of Seam: 5 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Mine Surveyor: L. C. Stevens.
Location of Mine L.S. 4, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 331.
C.N.R. Mine.
Registered Trade Name: Pine Creek Coal.

Riverdale Coal Co.—Mine No. 1463

Authorized Capital: $10,000.00.
Name of President: John Mather.
Names of Directors: John Mather, Anne Mather, Cecile Mather.
Name of Secretary: Cecile Mather.
Name of Treasurer: Anne Mather.
Head Office: 10311 Saskatchewan Drive, Edmonton, Alberta.
Mine Office: Namao, Alberta.
General Manager: John Mather.
Mine Manager: M. D. McLean.
Mine Surveyor: David Jones.
Overman: J. Kennedy.
Firebosses: W. Kroskow, S. Kozmeniuk.
Thickness of Seam: 5 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: N.E. Corn. L.S. 14, Sec. 5, Twp. 55, Rge. 24, W. 4th Mer.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Dependable. Coal.

G. S. Gwilliam and K. Samis—Mine No. 1496

Authorized Capital: $88,000.00.
Name of President: K. E. Samis.
Names of Directors: K. E. Samis, D. J. Gwilliam.
Name of Secretary-Treasurer: D. J. Gwilliam.
Head Office: 203 Wallace Building, Edmonton, Alberta.
Mine Office: Namao, Alberta.
General Manager: K. E. Samis.
Mine Manager: James Crawford.
Mine Surveyor: L. C. Stevens.
Overman: James Crawford.
Fireboss: James Crawford.
Thickness of Seam: 6 ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3, Sec. 6, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: 5456, 653.
Registered Trade Name: Black Beauty Coal.

K. Nimko—Mine No. 1560

Mine Office: Rabbit Hill, Alberta.
Head Office: Box 4006, South Edmonton, Alberta.
General Manager: K. Nimko.
Mine Manager: K. Nimko.
Mine Surveyor: L. C. Stevens.
Thickness of Seam: 5 ft.
Thickness of Cover: 120 ft.
Form of Opening: Slope. Size of Slope: 6 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 10, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 623.
Registered Trade Name: White Mud Creek Coal.

Egg Lake Coal Co.—Mine No. 1582

Mine Office: Morinville, Alberta.
Mine Manager: H. Paepe.
General Manager: T. Logan.
Mine Surveyor: David Jones.
Foreman: F. Fellows.
Thickness of Seam: 6 ft.
Thickness of Cover: 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 13 and 14, Sec. 36, Twp. 56, Rge. 26, W. 4th Mer.
Coal Mining Lease Number: 5600.
Truck Mine.
Registered Trade Name: Egg Lake Coal.

J. B. Starky Co. Ltd.—Mine No. 1626

Authorized Capital: $250,000.00.
Name of President: J. B. Starky.
Names of Directors: J. B. Starky, E. A. Mills.
Name of Secretary-Treasurer: E. A. Mills.
Head Office: 10631 - 92 Street, Edmonton, Alberta.
Mine Office: R.R.2, St. Albert, Alberta.
Mine Manager: W. T. Worthington, Sr.
General Manager: J. B. Starky.
Mine Surveyor: W. T. Worthington, Jr.
Overman: J. F. Brown.
Firebosses: F. Parobchuk, F. Broderick, S. Kendrick, H. Wales, E. Fawcett.
Thickness of Seam: 8 ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 75 ft. Size of Slope: 7 ft. x 8 ft. Depth of Slope: 215 ft.
Location of Mine: L.S. 4, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5537, 610, 652.
N.A.R. and Truck Mine.
Registered Trade Name: Star-Key Coal.

Carbondale Collieries Ltd.—Mine No. 1627

Mine Office: Carbondale, Alberta.
General Manager: W. Dickinson.
Mine Manager: W. Knight.
Mine Surveyor: L. Stevens.
Overman: W. Knight.
Thickness of Seam: 6 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: S.E. ¼, Sec. 17, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: C.P.R.
C.N.R. and Truck Mine.
Registered Trade Name: Carbondale Coal.

Blue Point Mine—Mine No. 1628

Mine Office: Box 2024, South Edmonton, Alberta.
General Manager: M. Sinoski.
Mine Manager: S. Sinoski.
Mine Surveyor: L. C. Stevens.
Overman: S. Sinoski.
Thickness of Seam: 4 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 9 ft. Depth of Shaft: 100 ft.
Location of Mine: L.S. 15, Sec. 23, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 578.
Truck Mine.
Registered Trade Name: Blue Point Coal.

C. F. MacLachlan—Mine No. 1632

Mine Office: Ardrossan, Alberta.
General Manager: C. F. MacLachlan.
Mine Manager: M. Olson.
Mine Surveyor: L. C. Stevens.
Foreman: M. Olson.
Thickness of Seam: 5 ft.
Thickness of Cover: 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. ¼ L.S. 8 and 9, Sec. 2, Twp. 53, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5542.
Truck Mine.
Registered Trade Name: Beaver Hills Coal.

Morinville Collieries Limited—Mine No. 1635

Authorized Capital: $40,000.00.
Name of President: John Camarta.
Names of Directors: J. Camarta, J. McDonald, J. Schafers.
Name of Secretary: J. McDonald.
Name of Treasurer: J. Schafers.
Head Office: Morinville, Alberta.
Mine Office: Morinville, Alberta.
Mine Manager: J. Camarta.
Mine Surveyor: L. C. Stevens.
Overman: J. Camarta.
Thickness of Seam: 7 ft.
Thickness of Cover: 55 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 175 ft.
Location of Mine: L.S. 1, Sec. 32, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5565.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Spitfire Coal.

J. B. St. Martin—Mine No. 1636

Mine Office: Legal, Alberta.
Mine Manager: J. B. St. Martin.
Mine Surveyor: L.C. Stevens.
Foreman: B. St. Martin.
Thickness of Seam: 4 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 11 and 14, Sec. 26, Twp. 57, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: M.S. 970.
Truck Mine.
Registered Trade Name: Legal Coal.

A. Horkulak—Mine No. 1641

Mine Office: Box 4092, South Edmonton, Alberta.
Mine Manager: A. Horkulak.
Mine Surveyor: L. C. Stevens.
Overman: A. Horkulak.
Thickness of Seam: 5 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 90 ft.
Location of Mine: L.S. 9, 10, 15, and 16, Sec. 26, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5520, 638.
Truck Mine.
Registered Trade Name: Rabbit Hill Coal.

T. Opalinski—Mine No. 1658

Mine Office: Ellerslie, Alberta.
Mine Manager: R. Klapstein.
Mine Surveyor: L. C. Stevens.
Foreman: R. Klapstein.
Thickness of Seam: 2 ft.
Thickness of Cover: 22 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 15, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 631, 637.
Truck Mine.
Registered Trade Name: Ellerslie Coal.

J. G. Mucha—Mine No. 1684

Authorized Capital: $15,000.00.
Mine Office: Box 4044, South Edmonton, Alberta.
Mine Manager: John Mucha.
Mine Surveyor: L. C. Stevens.
Foreman: J. Mucha.
Thickness of Seam: 2 ft.
Thickness of Cover: 26 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 10, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 623, 622.
Truck Mine.
Registered Trade Name: Bright Service Coal.

Adelard Houle—Mine No. 1696

Mine Office: Morinville, Alberta.
Mine Manager: Adelard Houle.
Mine Surveyor: L. C. Stevens.
Foreman: Adelard Houle.
Thickness of Seam: 6 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, 2, 7, and 8, Sec. 36, Twp. 56, Rge. 26, W. 4th Mer.
Coal Mining Lease Number: 5707.
Truck Mine.
Registered Trade Name: Mearn's Coal.

GLEICHEN AREA

Blackfoot Indian Agency Coal Mine Mine No. 72

Mine Office: Gleichen, Alberta.
General Manager: W. P. B. Pugh.
Mine Manager: T. Marshall.
Mine Surveyor: A. G. Macaulay.
Thickness of Seam: 4½ ft.
Thicknes of Cover: 150 ft. to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: Sec. 12, Twp. 21, Rge. 21, W. 4th Mer.
Truck Mine.

Hans Castella & Sons—Mine No. 1265

Mine Office: Standard, Alberta.
General Manager: M. A. Castella.
Mine Surveyor: J. Hamilton.
Overman: J. Hamilton.
Thickness of Seam: 4 ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 10 ft. Depth of Slope: 110 ft.
Location of Mine: L.S. 5, Sec. 11, Twp. 25, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 659.
Truck Mine.
Registered Trade Name: Standard Coal.

H. Rasmussen & C. H. Fleischer—Mine No. 1431

Mine Office: Box 34, Rosebud, Alberta.
Mine Surveyor: David Jones.
Overman: C. Fleischer.
Thickness of Seam: 3 ft.
Thickness of Cover: 20 ft. to 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6ft. x 5 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 3 and 6, Sec. 29, Twp. 26, Rge. 21. W. 4th Mer.
Coal Mining Lease Number: C.P.R. 704.
Truck Mine.
Registered Trade Name: Consumer's Coal.

Wm. McMillan—Mine No. 1521

Mine Office: Rosebud, Alberta.
Mine Surveyor: David Jones.
Overman: A. McMillan.
Fireboss: C. Smith.
Thickness of Seam: 3½ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Location of Mine: L.S. 14, Sec. 20, Twp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 664.
Truck Mine.
Registered Trade Name: Supreme of the Valley Coal.

HALCOURT AREA

Baldwin Collieries Ltd.—Mine No. 651

Mine Office: Grande Prairie, Alberta.
Mine Manager: E. Cumber.
Mine Surveyor: David Jones.
Overman: E. Cumber.
Thickness of Seam: 3 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal:
Form of Opening: Drift.
Location of Mine: L.S. 15, Sec. 35, Twp. 70, Rge. 7, W. 6th Mer.
Coal Mining Lease Numbers: 2737, 5461.
Truck Mine.
Registered Trade Name: Globe Coal.

Wm. Fraser—Mine No. 1633

Mine Office: Halcourt, Alberta.
Mine Manager: Wm. Fraser.
Mine Surveyor: David Jones.
Foreman:Wm. Fraser.
Blaster: Wm. Fraser.
Thickness of Seam: 2½ ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 8, Sec. 21, Twp. 70, Rge. 10, W. 6th Mer.
Coal Mining Lease Number: 5562.
Truck Mine.
Registered Trade Name: Fraser Coal.

Michael Romanuik—Mine No. 1704

Mine Office: Dawson Creek, B.C.
Mine Manager: Michael Romaniuk.
Foreman: Michael Romaniuk.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of 3 and 6, Sec. 21, Twp. 70, Rge. 10, W. 6th Mer.
Coal Mining Lease Number: 5831.
Registered Trade Name: Burn E.Z. Coal.

HIGHWOOD AREA

Hard Coal Producers Ltd.—Mine No. 1625

Authorized Capital: $100,000.00.
Name of President: M. Brown.
Name of Director: Robert McDougall.
Name of Secretary-Treasurer: A. Russell Clark.
Head Office: 304 Maclean Block, Calgary, Alberta.
Mine Office: Turner Valley.Alberta.
Superintendent: Frank S. Millard.
Mine Manager: B. T. Brooks.
Fireboss: Harry Hillary.
Thickness of Seam: 10 ft. to 36 ft.
Inclination of Seam: 65 degrees.
Form of Opening: Tunnel.
Location of Mine: N.E. ¼ of Sec. 15, Twp. 19, Rge. 7, W. 5th Mer.
Coal Mining Lease Number: C. S. 469.
Truck Mine.
Registered Trade Name: Canthracite Coal.

Sheep River Coal—Mine No. 1638

Authorized Capital: $100,000.00.
Name of President: James E. Muir.
Names of Directors: J. E. Muir, B. Hills, S. H. Morton, W. G. Brown.
Name of Secretary-Treasurer: Basil Hills.
Head Office: 309 8th Avenue West, Calgary, Alberta.
Mine Office: Turner Valley, Alberta.
General Manager: James E. Muir.
Mine Manager: W. G. Brown.
Thickness of Seam: 40 ft.
Thickness of Cover: 10 ft.
Form of Opening: Strip Mine.
Location of Mine: L. S. 7, Sec. 24, Twp. 19, Rge. 6, W. 5th Mer.
Coal Mining Lease Numbers: 5546, 5589.
C.P.R. and Truck Mine.
Registered Trade Name: Sheep River Coal.

LETHBRIDGE AREA

A. Razzolini—Mine No. 56

Mine Office: Magrath, Alberta.
Mine Manager: Albert Razzolini.
Mine Surveyor: J. F. Hamilton.
Overman: Albert Razzolini.
Thickness of Seam: 3½ ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 3, Sec. 7, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: Pat. G. Russell.
Truck Mine.
Registered Trade Name: The Baker Coal.

J. A. S. Wukisich—Mine No. 738

Head Office: 732 - 12 Street, "C" North, Lethbridge, Alberta.
Mine Office: Lethbridge. Alberta.
Mine Manager: J. A. S. Wukisich.
Mine Surveyor: J. F. Hamilton.
Overman: J. A. S. Wukisich.
Thickness of Seam: 2 ft.
Thickness of Cover: 20 ft. to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Size of Shaft: 4 ft. x 4 ft. Depth of Shaft: 35 ft.
Location of Mine: L.S. 2 and 7, Sec. 11, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5522.
Truck Mine.
Registered Trade Name: Santa-Maria Coal.

George Rollingson—Mine No. 889

Mine Office: Box 432, Lethbridge, Alberta.
Mine Manager: George Rollingson.
Mine Surveyor: J. F. Hamilton.
Overman: George Rollingson.
Thickness of Seam: 2 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: Horizontal.
Location of Mine: Pts. L.S. 15 and 16, Sec. 2, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number:5768.
Registered Trade Name: Whoopup Coal.

Steve Kocsis & Steve Varga—Mine No. 1086

Mine Office: Riverview Apartment, Lethbridge, Alberta.
Mine Manager: Steve Kocsis.
Mine Surveyor: J. F. Hamilton.
Overman: Steve Kocsis.
Thickness of Seam: 3 ft.
Thickness of Cover: 20 ft. to 155 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 5 ft.
Location of Mine: L.S. 5 and 12, Sec. 8, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 137.
Truck Mine.
Registered Trade Name: Steve's Mine.

J. C. Chester—Mine No. 1095

Mine Office: Lethbridge, Alberta.
Mine Manager: D. J. Crabb.
Mine Surveyor: J. F. Hamilton.
Firebosses: G. Chomotti, W. Strickland.
Thickness of Seam: 4 ft.
Thickness of Cover: 100 ft. to 300 ft.
Inclination of Seam: 2 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 6 ft. Depth of Slope: 136 ft.
Location of Mine: N. ½ of L.S. 8, Sec. 30, Twp. 9, Rge. 21, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 639, 660, 5197 and 5625.
C.P.R. and Truck Mine.
Registered Trade Name: Royal Coal.

Lethbridge Collieries Ltd.—Mine No. 1263

Authorized Capital: $1,400,000.00.
Name of President: Leslie Munroe.
Names of Directors: Leslie Munroe, E. A. Lovett, H. D. Rood, Wm. Toole, G. R. Whitmore.
Name of Secretary: C. T. Webb.
Name of Treasurer: R. V. Maynard.
Head Office: 137 9th Avenue East, Calgary, Alberta.
Mine Office: Shaughnessy, Alberta.
General Manager: J. M. Davidson.
Mine Manager: A. G. Donaldson.
Mine Surveyor: R. D. Livingstone.
Overman: Fred Thackray.
Firebosses: J. Guisto, J. C. Macaulay, A. Birse, J. Wakiwazuk, J. M. Fisher, S. A. Yorko, A. Koshman.
Thickness of Seam: 5 ft.
Thickness of Cover: 263 ft.
Inclination of Seam: Dip 2 degrees N. 56 degrees W.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 24 ft. Depth of Shaft: 263 ft.
Location of Mine: L.S. 11, Sec. 30, Twp. 10, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: M.S. 983.
Mine Located on C.P.R.
Registered Trade Name: Cadillac Coal.

Lethbridge Collieries Limited—Mine No. 1464

Authorized Capital: $1,400,000.
Name of President: Leslie Munroe.
Names of Directors: Leslie Munroe, E. A. Lovett, H. D. Rood, Wm. Toole, G. R. Whitmore.
Name of Secretary: C. T. Webb.
Name of Treasurer: R. V. Maynard.
Head Office: 137 - 9th Avenue East, Calgary, Alberta.
Mine Office: Lethbridge, Alberta.
General Manager: J. M. Davidson.
Mine Manager: J. Brady.
Mine Surveyor: R. D. Livingstone.
Overman: H. Tyler.
Firebosses: D. Coutts, J. Stewart, Jr., J. Stewart, Sr., J. Peta, R. Dobbs, L. C. Ridgeway, F. Peta, J. McCall.
Thickness of Seam: 4 ft.
Thickness of Cover: 400 ft.
Inclination of Seam: 1 in 75 degrees, N 8 W.
Form of Opening: Shaft. Size of Shaft: 11 ft. x 19 ft. Depth of Shaft: 359 ft.
Location of Mine: L.S. 3, Sec. 2, Twp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 524.
Mine Located on C.P.R.
Registered Trade Name: Galt Coal.

J. J. Hamilton Coal Co.—Mine No. 1581

Authorized Capital: $22,000.00.
Head Office: 413 8th Street South, Lethbridge, Alberta.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. J. Hamilton.
Mine Surveyor: J. F. Hamilton.
Overman: E. Tyrer.
Firebosses: D. Howell, S. Lesson.
Thickness of Seam: 4 ft.
Thickness of Cover: 470 ft.
Inclination of Seam: 2 degrees.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 9 ft. Depth of Shaft: 235 ft.
Location of Mine: L.S. 5, 6, 10, 12, and 15, Sec. 24, Twp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5370.
C.P.R. and Truck Mine.
Registered Trade Name: Federal Coal.

L. C. McClain—Mine No. 1685

Mine Office: Magrath, Alberta.
Mine Manager: L. C. McClain.
Foreman: L. C. McClain.
Thickness of Seam: 3½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Sec. 18, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: Indian Reserve.
Truck Mine.
Registered Trade Name: M. & M. Coal.

MILK RIVER AREA

Thomas Taylor—Mine No. 1301

Mine Office: Lucky Strike, Alberta.
Mine Manager: Edward Taylor.
Mine Surveyor: J. F. Hamilton.
Overman: Frank Olito.
Thickness of Seam: 4 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6½ ft. x 5½ ft. Depth of Slope: 221 ft.
Location of Mine: L.S. 7, 8, 9, 10, Sec. 10, Twp. 3, Rge. 11, W. 4th Mer.
Truck Mine.
Registered Trade Name: New Benwell Coal.

MOUNTAIN PARK AREA

Mountain Park Coals Ltd.—Mine No. 282

Authorized Capital: $1,042,430.00.
Name of President: Alec M. Mitchell.
Names of Directors: A. M. Mitchell, Col. Sir. H. P. Mitchell, Bt., Alex C. Dunn, M.E., Mayne Reid, K.C., Robert M. Jenkinson.
Name of Secretary: R. N. Jenkinson.
Name of Treasurer: R. N. Jenkinson.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Mountain Park, Alberta.
General Manager: Fred Horne.
Mine Manager: D. MacKinnon.
Foremen: R. Norton, A. Emblau, A. Stone, A. Wright.
Thickness of Seam: 25 ft. to 35 ft.
Thickness of Cover: 250 ft. to 800 ft.
Inclination of Seam: 0 to 60 degrees.
Form of Opening: Strip Mine.

Location of Mine: Sec. 33, Twp. 45, Rge. 23, W. 5th Mer.

Coal Mining Lease Numbers: 5043, 5050.

Mine Located on C.N.R.

Registered Trade Name: Mountain Park Coal.

Cadomin Coal Co. Ltd.—Mine No. 693

Authorized Capital: $1,200,000.00.
Name of President: H. W. Riley, Jr.
Names of Directors: J. R. Milner, A. C. Emery, T. M. Burnett, S. W. Field, Colin Campbell.
Name of Secretary-Treasurer: C. Chisholm.
Head Office: 418 McLeod Building, Edmonton, Alberta.
Mine Office: Cadomin Alberta.
Mine Manager: P. S. Douglas.
Mine Surveyor: N. Clyburn.
Overmen: A J. Henderson, J. Herman.
Firebosses: S. Chesney. S. Wilson, P. Nicholson, F. Gosney, W. Stene, L. Douglas, W. Driega.
Thickness of Seam: 35 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: 60 degrees.
Form of Opening: Shaft and Slope. Size of Shaft: 20 ft. x 12 ft. Depth of Shaft: 826 ft. Size of Slope: 10 x 10 ft. Depth of Slope: 1250 ft.
Location of Mine: L.S. 14, Sec. 31, Twp 46, Rge. 23, W. 5th Mer.
Coal Mining Lease Numbers: 5061, 5082.
Mine Located on C.N.R.
Registered Trade Name: Cadomin Coal.

Luscar Coal Ltd.—Mine No. 9C5

Authorized Capital: $650,000.00.
Name of President: Alec M. Mitchell.
Names of Directors: A. Mitchell, Col. Sir Harold P. Mitchell, Bt, A. Dunn, M. E., Maybe Reid, K.C., Robert M. Jenkinson, William O. Parlee, K.C.
Name of Secretary-Treasurer: R. M. Jenkinson.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Luscar, Alberta.
General Manager: Fred Horne.
Mine Manager: D. C. Hamilton.
Mine Surveyor: E. Squire.
Overmen: R. Mitchell, R. Norton, J. Kubin, W. Thomas.
Firebosses: F. Brown, R. Brown, J. Kubin, D. Davis, R. McLeod, J. Jones.
Thickness of Seam: 30 ft. to 35 ft.
Thickness of Cover: 10 ft. to 150 ft.
Form of Opening: Tunnel.
Location of Mine: L.S. 7, Sec. 23, Twp. 47, Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5213.
Mine Located on C.N.R.
Registered Trade Name: Luscar Coals Ltd.

Gregg River Collieries—Mine No. 1392

Authorized Capital: $50,000.00.
Name of President: H. W. Riley, Jr.
Names of Directors: H. R. Milner, A. C. Emery, T. M. Burnett, S. W. Field, Colin Campbell.
Name of Secretary-Treasurer: C. Chisholm.
Head Office: Edmonton, Alberta.
Mine Office: Cadomin, Alberta.
Mine Manager: P. S. Douglas.
Mine Surveyor: N. Clyburn.
Firebosses: S. Chesney, S. Wilson, P. Nicholson, F. Gosney, W. Stene, L. Douglas, W. Driega.
Thickness of Seam: 30 ft.
Thicknesss of Cover: 25 ft.
Inclination of Seam: 60 to 70 degrees.
Form of Opening: Horizontal.
Location of Mine: L.S. 8, Sec. 28, Twp. 47, Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5560.
Mine Located on C.N.R.
Registered Trade Name: Gregg River Coal.

Luscar Coals Ltd.—Mine No. 1617

Mine Office: Luscar, Alberta.
Mine Manager: D. C. Hamilton.
Mine Surveyor: E. Squire.
Overman: W. Thomas.
Firebosses: D. Davies, R. McLeod, J. Jones.
Thickness of Seam: 30 to 35 ft.
Location of Mine: Sec. 27, Twp. 47, Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5440.
Registered Trade Name: Luscar Coal.

NORDEGG AREA

Brazeau Collieries Limited—Mine No. 256

Authorized Capital: $4,000,000.00.
Name of President: J. A. Boyd.
Names of Directors: J. A. Boyd, W. H. Moore, H. S. Gausby, J. A. Kilpatrick, G. R. Cottrelle.
Name of Secretary-Treasurer: H. S. Gausby.
Head Office: 25 King Street West, Toronto 1, Ontario.
Mine Office: Nordegg, Alberta.
General Manager: A. D. Sturrock.
Mine Manager: D. Shanks.
Mine Surveyor: T. H. Hodson.
Overman: T. B. Touhey.
Firebosses: J. S. Barton, D. Williamson, R. Whyte, O. Edwards, G. B. Minue, A. Blasetti.
Thickness of Seam: 6 ft.
Thickness of Cover: 293 ft.
Inclination of Seam: 12 degrees.
Form of Opening: Slope: 13 ft. x 12 ft. Depth of Slope: 4000 ft.
Location of Mine: Twp. 40, Rge. 15, W. 5th Mer.
Coal Mining Lease Number: 5169.
Mine Located on C.N.R.
Registered Trade Name: Brazeau Bituminous Steam Coal.

Brazeau Collieries Limited—Mine No. 1585

Authorized Capital: $4,000,000.00.
Name of President: J. A. Boyd.
Names of Directors: J. A. Boyd, W. H. Moore, H. S. Gausby, J. A. Kilpatrick. G. R. Cottrelle.
Name of Secretary-Treasurer: H. S. Gausby.
Head Office: 25 King Street West, Toronto 1, Ontario.
Mine Office: Nordegg, Alberta.
General Manager: A. D. Sturrock.
Mine Manager: A. McMullen.
Mine Surveyor: T. H. Hodson.
Overman: D. Duncan.
Firebosses: J. B. White, J. White, H. Williams.
Thickness of Seam: 13 ft.
Thickness of Cover: 314 ft.
Inclination of Seam: 12 degrees.
Form of Opening: Slope. Size of Slope: 12 ft. x 6 ft. Depth of Slope: 4000 ft.
Location of Mine: Twp. 40, Rge. 15, W. 5th Mer.
Coal Mining Lease Number: 5169.
Mine Located on C.N.R.
Registered Trade Name: Brazeau Bituminous Steam Coal.

MORLEY AREA

Chiniki Coal Co.—Mine No. 1619

Mine Office: Morley, Alberta.
Mine Surveyor: Gordon L. Kidd.
Foreman: Wm. Dropko.
Thickness of Seam: 6 ft.

Thickness of Cover: 75 ft.
Form of Opening: Strip Mine.
Location of Mine: Unsurveyed Territory.
C.P.R. and Truck Mine.
Registered Trade Name: Fire Cloud Coal.

PAKOWKI AREA

M. R. Johnson & E. Davis—Mine No. 1318

Mine Office: Elkwater, Alberta.
Mine Manager: M. R. Johnson.
Mine Surveyor: E. Ashburner.
Overman: M. R. Johnson.
Thickness of Seam: 5 ft. 7 in.
Thickness of Cover: 0 to 200 ft.
Inclination of Seam: Horizontal.
Location of Mine: L.S. 10, Sec. 23, Twp. 8, Rge. 3, W. 4th Mer.
Coal Mining Lease Number: 2890.
Truck Mine.
Registered Trade Name: Elkwater Coal.

PEKISKO AREA

Peter M. Ramsay—Mine No. 1516

Mine Office: Calgary: Alberta.
Mine Surveyor: W. E. G. Hall.
Overman: T. Coulter.
Thickness of Seam: 3 ft. to 6 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: 13 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 230 ft.
Location of Mine: L.S. 10, Sec. 4, Twp. 22, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: 5614.
C.P.R. and Truck Mine.
Registered Trade Name: Ideal Coal.

PEMBINA AREA

Alberta Coal Co. Ltd.—Mine No. 419

Name of President: Fred Mannix, Jr.
Names of Directors: F. Mannix, E. W. Costello, R. Connelly, J. B. Bonny, J. T. Sangwin.
Name of Secretary: J. T. Sangwin.
Head Office: 604 Northern Hardware Bldg., Edmonton.
Mine Office: Wabamun, Alberta.
General Manager: W. J. Blackstock.
Mine Manager: John Vivyorka.
Mine Surveyor: David Jones.
Thickness of Seam: 13½ ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 9, Twp. 53, Rge. 4, W. 5th Mer.
Coal Mining Lease Numbers: C.P.R. 663, 572.
Mine Located on C.N.R.
Registered Trade Name: Victory Coal.

Gainford Collieries Ltd.—Mine No. 1409

Mine Office: Seba Beach, Alberta.
Mine Manager: Ora Whittaker.
Foreman: Ora Whittaker.
Thickness of Seam: 9 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.E. ¼ of Sec. 36, Twp. 53, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 618, 5099.
Registered Trade Name: Gain-Heat Coal.

Pembina Peerless Coal Co. Ltd.—Mine No. 1495

Mine Office: Entwistle, Alberta.
Mine Manager: Gordon Ostertag.
Mine Surveyor: L. C. Stevens.
Foreman: J. Ostertag.
Thickness of Seam: 4 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ of Sec. 34, Twp. 53, Rge. 7, W. 5th Mer.
Coal Mining Lease Number: C.S. 238.
Truck Mine.
Registered Trade Name: Pembina Peerless Coal.

Mt. Royal Collieries Ltd.—Mine No. 1592

Mine Office: Seba Beach, Alberta.
Mine Manager: Samuel Davidson.
Foreman: Samuel Davidson.
Thickness of Seam: 27 ft.
Thickness of Cover: 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. ½ of Sec. 30, Twp. 52, Rge. 4, W. 4th Mer.
Coal Mining Lease Number: 5442.
C.N.R. and Truck Mine.
Registered Trade Name: Sun Glow Coal.

Strawberry Creek Coal Co.—Mine No. 1644

Authorized Capital: $20,000.00.
Name of President: Leslie G. Karsay.
Names of Directors: L. G. Karsay, Joe Balga, Miss Elaine Liba.
Name of Secretary: Elaine Liba.
Mine Office: Warburg, Alberta.
Mine Surveyor: David Jones.
Mine Manager: G. Martin.
Foreman: G. Martin.
Thickness of Seam: 4 ft.
Thickness of Cover: 20 ft. to 50 ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 617.
C.P.R. and Truck Mine.
Registered Trade Name: Strawberry Creek Coal.

Lothian Collieries Ltd.—Mine No. 1645

Authorized Capital: $32,500.00.
Name of President: A. N. Scott.
Names of Directors: A. N. Scott, Wm. Foster, A. Scott, Jr., G. Finlay.
Name of Secretary-Treasurer: G. Finlay.
Head Office: 9552 - 102 Avenue, Edmonton, Alberta.
Mine Office: Wabamun, Alberta.
Mine Manager: Wm. Foster.
Mine Surveyor: Wm. Foster.
Foreman: Wm. Foster.
Thickness of Seam: 14 ft.
Thickness of Cover: 38 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Sec. 10 and 15, Twp. 53, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 628, 5568.
C.N.R. and Truck Mine.
Registered Trade Name: Blue Flame Coal.

N. Fry & T. Larson—Mine No. 1652

Mine Office: Seba Beach, Alberta.
Mine Manager: N. Fry.
Mine Surveyor: David Jones.
Overman: N. Fry.
Thickness of Seam: 8 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 80 ft.
Location of Mine: L.S. 16, Sec. 25, Twp. 53, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 608.
Registered Trade Name: Cora Coal.

J. Lidgett & L. Opheim—Mine No. 1657

Mine Office: Entwistle, Alberta.
Mine Manager: Louis Opheim.
Mine Surveyor: L. C. Stevens.
Overman: Louis Opheim.
Thickness of Seam; 4½ ft.

Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: S. ½ of 16 and 9, Sec. 10, Twp. 54, Rge. 7, W. 5th Mer.
Coal Mining Lease Number: 5619.
Truck Mine.
Registered Trade Name: O. and L. Coal.

Lothian Collieries Ltd.—Mine No. 1670

Authorized Capital: $75,000.00.
Name of President: A. N. Scott.
Names of Directors: Wm. Foster, A. N. Scott.
Name of Secretary-Treasurer: G. W. Findlay.
Head Office: 9552 - 102 Avenue, Edmonton, Alberta.
Mine Office: Warburg, Alberta.
General Manager: W. Foster.
Mine Manager: Joseph Pinter.
Mine Surveyor: Wm. Foster.
Foreman: Joseph Pinter.
Thickness of Seam: 2½ ft.
Thickness of Cover: 12 ft. to 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 14, Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
Coal Mining Lease Numbers: C.P.R. 656, 688.
C.P.R.and Truck Mine.
Registered Trade Name: Pinter Coal.

James Sturms—Mine No. 1687

Mine Office: Genesse, Alberta.
Mine Manager: James Sturms.
Foreman: James Sturms.
Form of Opening: Strip Mine.
Location of Mine: N.E. ¼ of Sec. 15, Twp. 50, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 654.
Registered Trade Name: Island View Coal.

K. Schon and M. J. Hoover—Mine No. 1690

Mine Office: Edmonton, Alberta.
Mine Manager: John Lang.
Mine Surveyor: David Jones.
Overman: John Lang.
Thickness of Seam: 8 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. x 8 ft. Depth of Slope: 120 ft.
Location of Mine: L.S. 4, 5, 6, 11 and 12, Sec. 8, Twp. 50, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: 5700.
Registered Trade Name: Tomahawk Coal.

Edmund Miller—Mine No. 1709

Mine Office: Telfordville, Alberta.
Location of Mine: L.S. 12 and 13, Sec. 33, Twp. 49, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 699.
Registered Trade Name: Miller Coal.

Wm. S. Marcuc—Mine No. 1712

Mine Office: Warburg, Alberta.
Mine Manager: Frank Fedor.
Thickness of Seam: 4 ft.
Thickness of Cover: 17 ft.
Form of Opening: Strip Mine.
Location of Mine: N.W. ¼ Sec. 20, Twp. 49, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: 5934.
Registered Trade Name: Sunnybrook Coal.

Samuel Giovinazzo—Mine No. 1715

Mine Office: Highvale, Alberta.
Mine Manager: S. Giovinazzo.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 8, Twp. 52, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: 5947.
Registered Trade Name: Hy-Vale Coal.

PINCHER AREA

Rhodes Mining Co.—Mine No. 1440

Mine Office: Lundbreck, Alberta.
Mine Manager: W. B. Rhodes.
Mine Surveyor: F. Utley.
Overman: W. B. Rhodes.
Thickness of Seam: 6 ft. to 8 ft.
Thickness of Cover: outcrop.
Inclination of Seam: 65 degrees.
Form of Opening: Slope. Size of Slope: 7 ft. x 8 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 10, Sec. 26, Twp. 7, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: Freehold.
Truck Mine.
Registered Trade Name: Quick Flame Coal.

PRAIRIE CREEK AREA

Dunn & Finlay—Mine No. 1296

Mine Office: Hinton, Alberta.
Mine Manager: Wayne Clark.
Foreman: W. Clark.
Location of Mine: L.S. 3 and 6, Sec. 19, Twp. 51, Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5646.
Registered Trade Name: Yellowhead Coal.

Hinton Hard Coal Co.—Mine No. 1653

Authorized Capital: $10,000.00.
Mine Office: Hinton, Alberta.
Mine Manager: George Sharpe.
Mine Surveyor: L. C. Stevens.
Overman: George Sharpe.
Thickness of Seam: 15 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: 15 degrees.
Form of Opening: Slope. Size of Slope: 9 ft. Depth of Slope: 285 ft.
Location of Mine: L.S. 4, Sec. 29, Twp. 50, Rge. 25, W. 5th Mer.
Truck Mine.
Registered Trade Name: Hinton Hard Coal.

C. M. Woodley & H. Schnur—Mine No. 1714

Mine Office: Hinton, Alberta.
Mine Manager: C. M. Woodley.
Mine Surveyor: No appointment as yet.
Overman: C. M. Woodley.
Thickness of Seam: 5 ft.
Thickness of Cover: 37 ft.
Form of Opening: Slope. Size of Slope: 6 ft. x 9 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 7, Sec. 11, Twp. 51, Rge. 25, W. 5th Mer.
Coal Mining Lease Number: 5924.
Truck Mine.
Registered Trade Name: Industrial Coal.

REDCLIFF AREA

Ajax Coal Co. Ltd.—Mine No. 772

Mine Office: Medicine Hat, Alberta.
Mine Manager: Rudolph Radke.
Mine Surveyor: J. F. Hamilton.
Overman: M. Valentini.
Thickness of Seam: 7½ ft.
Thickness of Cover: 235 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 135 ft.
Location of Mine: L.S. 2, Sec. 5, Twp. 13, Rge. 6, W. 4th Mer.
Coal Mining Lease Number: C.P.R.
Registered Trade Name: Ajax Coal.

G. A. Naylor—Mine No. 1707

Mine Office: Medicine Hat, Alberta.
Mine Manager: G. A. Naylor.
Mine Surveyor: George McMillan.
Foreman: G. A. Naylor.
Form of Opening: Strip Mine.
Location of Mine: Sec. 1, Twp. 13, Rge. 7, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 697.
Registered Trade Name: Hatex Coal.

ROCHESTER AREA

M. S. Alexander—Mine No. 1686

Mine Office: Athabasca, Alberta.
Mine Manager: Marwood Alexander.
Foreman: Marwood Alexander.
Thickness of Seam: 4 ft. to 14 ft.
Form of Opening: Strip Mine: L.S. 8, Sec. 11, Twp. 66, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: S.L. 555.
Truck Mine.
Registered Trade Name: Baptiste Coal.

SAUNDERS AREA

Bighorn & Saunders Creek Collieries Mine No. 388

Authorized Capital: $300,000.00.
Name of President: R. P. Charbonnier.
Names of Directors: Mrs. M. Charbonnier, L. P. Robert, R. P. Charbonnier, W. G. Pearson.
Name of Secretary-Treasurer: A. R. Granger.
Head Office: Blairmore, Alberta.
Mine Office: Saunders, Alberta.
General Manager: R. P. Charbonnier.
Mine Manager: T. Campbell.
Mine Surveyor: P. Pullen.
Overman: L. C. Gladwin.
Firebosses: F. Rich, R. Cowley, J. Nelson, J. M. Stewart.
Thickness of Seam: 4 ft. 9 in.
Thickness of Cover: 300 ft.
Inclination of Seam: 7 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 6 ft. Depth of Slope: 2200 ft.
Location of Mine: Sec. 24, Twp. 40, Rge. 13, W. 5th Mer.
Coal Mining Lease Number: 5162.
Mine Located on C.N.R.
Registered Trade Name: Bighorn and Saunders Creek Coal.

Alexo Coal Co. Ltd.—Mine No. 852

Authorized Capital: $200,000.00.
Name of President: E. F. Pullen.
Names of Directors: E. F. Pullen, F. Pullen, P. F. Pullen, P. M. Higgins, C. C. Clarke.
Name of Secretary-Treasurer: R. Young.
Head Office: Toronto, Ontario.
Mine Office: Alexo, Alberta.
General Manager: P. F. Pullen.
Mine Manager: R. Tennant.
Mine Surveyor: P. F. Pullen.
Overman: J. Conlin.
Firebosses: R. Kerr, R. Conlin, M. Sernecky.
Thickness of Seam: 5 ft.
Thickness of Cover: 560 ft.
Inclination of Seam: 9 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 10 ft. Depth of Slope: 2700 ft.
Location of Mine: N.W. ¼ L.S. 9, Sec. 27, Twp. 40, Rge. 13, W. 5th Mer.
Coal Mining Lease Number: 5390, 5405, 5661.
Mine Located on C.N.R.
Registered Trade Name: Alexo and Acorn Saunders Coal.

SHEERNESS AREA

Chinook Coal Co. Ltd.—Mine No. 443

Authorized Capital: $50,000.00.
Name of President: Claude Gallinger.
Names of Directors: C. Gallinger, Mrs. R. L. Wood, R. L. Wood, Mrs. Jean Gallinger, Wilber Gallinger.
Name of Secretary-Treasurer: R. L. Wood.
Mine Office: Sheerness, Alberta.
Mine Manager: R. L. Wood.
Mine Surveyor: David Jones.
Foremen: F. Heaston, H. E. Walker.
Thickness of Seam: 5 ft.
Thickness of Cover: 15 ft. to 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, Sec. 12, Twp. 29, Rge. 13, W. 4th Mer.
Coal Mining Lease Numbers: 5183, C.P.R. 434, 559.
C.N.R. Truck Mine.
Registered Trade Name: Sheerness Chinook Coal.

A. Litke—Mine No. 486

Mine Office: Dowling, Alberta.
Mine Manager: A. Litke.
Mine Surveyor: David Jones.
Foreman: A. Litke.
Thickness of Seam: 3½ ft.
Form of Opening: Strip Mine.
Location of Mine: Pt. L.S. 6, Sec. 29, Twp. 32, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: S.L. 520.
Truck Mine.
Registered Trade Name: Superior Coal.

John Gaetz—Mine No. 1314

Mine Office: Hanna, Alberta.
Mine Manager: John Gaetz.
Mine Surveyor: David Jones.
Foreman: John Gaetz.
Thickness of Seam: 3 ft.
Thickness of Cover: 8 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, Sec. 6, Twp. 29, Rge. 14, W. 4th Mer.
Coal Mining Lease Number: 5591.
Truck Mine.
Registered Trade Name: Gowan Coulee Coal.

T. G. Ironside & A. Glover—Mine No. 1398

Mine Office: Scapa, Alberta.
Mine Manager: T. G. Ironside.
Mine Surveyor: David Jones.
Foreman: T. G. Ironside.
Thickness of Seam: 3 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12, Sec. 5, Twp. 34, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 468 A.
Registered Trade Name: Ironside Coal.

Fred M. Pahl—Mine No. 1401

Mine Office: Hanna, Alberta.
Mine Manager: Fred M. Pahl.
Mine Surveyor: David Jones.
Blaster: Otto Pahl.
Thickness of Seam: 2 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. and W. ½ of L.S. 7 and 8, Sec. 30, Twp. 32, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: 5083.
Truck Mine.
Registered Trade Name: Eureka Coal.

Sheerness Coal Co. Ltd.—Mine No. 1432

Authorized Capital: $10,000.00.
Name of President: Claude Gallinger.
Names of Directors: C. Gallinger, Mrs. Jean Gallinger.
Name of Secretary-Treasurer: R. L. Wood.
Mine Office: Sheerness, Alberta.
Mine Manager: R. L. Wood.
Mine Surveyor: David Jones.
Foremen: B. H. Bishop, H. Sward.
Thickness of Seam: 4 ft. to 5 ft.
Thickness of Cover: 15 ft. to 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.

Location of Mine: L.S. 5, Sec. 19, Twp. 29, Rge. 12, W. 4th Mer.
Coal Mining Lease Number: 5027, 5135.
C.N.R. and Truck Mine.
Registered Trade Name: Sheebo Coal.

J. Masciangelo & Partners—Mine No. 1553

Mine Office: Delia, Alberta.
Mine Manager: John Masciangelo.
Mine Surveyor: David Jones.
Overman: John Masciangelo.
Thickness of Seam: 3 ft. 9 in.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: L.S. 9, 10, 15, and 16, Sec. 21, Twp. 30, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5368.
Registered Trade Name: Blossom Mine Coal.

Crystal Mine—Mine No. 1597

Mine Office: Hanna, Alberta.
Mine Manager: A. J. Bordula.
Mine Surveyor: David Jones.
Foreman: A. J. Bordula.
Thickness of Seam: 7½ ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Location of Mine: L.S. 16, Sec. 12, Twp. 29, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: 5289.
Truck Mine.
Registered Trade Name: Crystal Coal.

J. I. Stirling & W. J. Friedley—Mine No. 1699

Mine Office: Delia, Alberta.
Mine Manager: W. J. Friedley.
Foreman: W. J. Friedley.
Thickness of Seam: 4 ft. 9 in.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ of Sec. 21, Twp. 30, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5827.
Truck Mine.
Registered Trade Name: Handhills Coal.

SLAVE AREA

Rybert Pearson—Mine No. 1682

Mine Office: Canyon Creek, Alberta.
Name of Manager: Rybert Pearson.
Form of Opening: Strip Mine.
Location of Mine: L.S. 9 of Sec. 21, Twp. 73, Rge. 8, W. 5th Mer.
Coal Mining Lease Number: 5705.
Registered Trade Name: Noralta Coal.

TABER AREA

C.R. Cooke—Mine No. 672

Authorized Capital: $12,000.00.
Head Office: 531 - 4th Street, Medicine Hat, Alberta.
Mine Office: Medicine Hat, Alberta.
Mine Manager: C. R. Cooke.
Thickness of Seam: 4 ft. to 6 ft.
Thickness of Cover: 135 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3, Sec. 27, Twp. 12, Rge. 10, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 9, 5353.
Registered Trade Name: Black Gem Coal.

D. McCracken & Goering—Mine No. 838

Mine Office: Alderson, Alberta.
Mine Manager: Duncan McCracken.
Overman: Duncan McCracken.
Thickness of Seam: 5 ft.
Thickness of Cover: 160 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: L.S. 7, Sec. 28, Twp. 12, Rge. 10, W. 4th Mer.
Coal Mining Lease Number: 5203.
Truck Mine.
Registered Trade Name: Sunny South Coal.

Continental Coal Corporation—Mine No. 1334

Authorized Capital: $2,000,000.00.
Name of President: Victor W. Campbell.
Names of Directors: V. W. Campbell, Walter Schlosser, W. Dubois.
Name of Secretary-Treasurer: D. S. Williamson.
Mine Office: Grassy Lake, Alberta.
Mine Surveyor: J. F. Hamilton.
Foreman: W. Turnbull.
Thickness of Seam: 3 ft.
Thickness of Cover: 21 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, 7, and 8, Sec. 26, Twp. 9, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 124.
Mine Located on C.P.R.
Registered Trade Name: Alburna Coal.

Oliver Coal Mines—Mine No. 1536

Mine Office: Taber, Alberta.
Mine Manager: Lewis Oliver.
Mine Surveyor: J. F. Hamilton.
Overman: Evan Evans.
Thickness of Seam: 3 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Location of Mine: L.S. 2, Sec. 18, Twp. 10, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: M.S. 438, 462.
Truck Mine.
Registered Trade Name: Oliver Senior Coal.

Southalta Coal Co.—Mine No. 1604

Authorized Capital: $150,000.00.
Name of President: M. M. MacDonald.
Name of Director: C. C. Cook.
Name of Secretary-Treasurer: C. C. Cook.
Mine Office: Taber, Alberta.
General Manager: C. C. Cook.
Mine Manager: M. G. Rhynas.
Foreman: George Wanner.
Thickness of Seam: 4 ft.
Thickness of Cover: 36 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Sec. 12, Twp. 10, Rge. 17, W. 4th Mer.
Coal Mining Lease Numbers: M.S. 433, 555.
C.P.R. and Truck Mine.
Registered Trade Name: Southalta Coal.

J. P. Neufeld—Mine No. 1705

Mine Office: Grassy Lake, Alberta.
Mine Manager: J. P. Neufeld.
Mine Surveyor: J. F. Hamilton.
Foreman: R. E. Galvin.
Thickness of Seam: 2 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of L.S. 4 and 5, Sec. 25, Twp. 9, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: S.L. 545.
C.P.R. and Truck Mine.
Registered Trade Name: Neucoal Mines.

TOFIELD AREA

Emil Skarin—Mine No. 215

Head Office: 11115 - 89th Avenue, Edmonton, Alberta.
Mine Office: Dodds, Alberta.
General Manager: Emil Skarin.

Mine Manager: McDevitt.
Mine Surveyor: David Jones.
Foreman: McDevitt.
Blaster: Foss.
Thickness of Seam: 3 ft. to 7 ft.
Thickness of Cover: 14 ft. to 22 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 7, Sec. 14, Twp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5544.
C.N.R. and Truck Mine.
Registered Trade Name: North Star Coal.

Tofield Coal Co.—Mine 252

Authorized Capital: $100,000.00.
Name of President: C. Gallinger.
Names of Directors: C. Gallinger, Mrs. Jean Gallinger.
Name of Secretary-Treasurer: W. Gallinger.
Head Office: Tofield, Alberta.
General Manager: C. Gallinger.
Mine Manager: N. E. Scott.
Mine Surveyor: David Jones.
Blaster: A. Johnson.
Thickness of Seam: 6 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. ½ of Sec. 26, Twp. 50, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
C.N.R. and Truck Mine.
Registered Trade Name: Headlight Coal.

Black Nugget Coal Co. Ltd.—Mine No. 1107

Authorized Capital: $50,000.00.
Name of President: F. L. Irving.
Names of Directors: F. L. Irving, C. Ellis and D. F. Irving.
Name of Secretary: S. Roe.
Head Office: 605 Maclean Block, Calgary, Alberta.
Mine Office: Dodds, Alberta.
Foremen: F. Kinjerski, K. Ovelson.
Blaster: N. Pooke.
Thickness of Seam: 5½ ft.
Thickness of Cover: 22 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 15, Sec. 11, Twp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: S.L. 262.
C.N.R. and Truck Mine.
Registered Trade Name: Hi-Lo Coal.

Ryley Coal Co.—Mine No. 1206

Authorized Capital: $6,000.00.
Name of President: Mike Zacharchuk.
Names of Directors: Mike Zacharchuk, John Pozniak, Harry Rudyk.
Name of Secretary: Stella Zacharchuk.
Mine Office: Ryley, Alberta.
Mine Manager: Mike Zacharchuk.
Mine Surveyor: David Jones.
Overman: Mike Zacharchuk.
Thickness of Seam: 7 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. Depth of Slope: 55 ft.
Location of Mine: L.S. 1 and 8, Sec. 8, Twp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 125.
Truck Mine.
Registered Trade Name: Ryley Coal.

C. Binder—Mine No. 1624

Authorized Capital: $12,000.00.
Mine Office: Ryley, Alberta.
Mine Manager: C. Binder.
Mine Surveyor: David Jones.
Overman: C. Binder.
Thickness of Seam: 10 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 8 ft. Depth of Slope: 70 ft.
Location of Mine: L.S. 5, Sec. 9, Twp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 613.
C.N.R. and Truck Mine.
Registered Trade Name: Ryalta Coal.

WESTLOCK AREA

John Melesko—Mine No. 1517

Mine Office: Thorhild, Alberta.
Mine Manager: John Melesko.
Mine Surveyor: David Jones.
Foreman: John Melesko.
Thickness of Seam: 5 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of L.S. 12 and 13, Sec. 12, Twp. 60, Rge. 21. W. 4th Mer.
Coal Mining Lease Number: 5275.
Truck Mine.
Registered Trade Name: Dandy Coal.

Picardville Coal Company—Mine No. 1523

Mine Office: Picardville, Alberta.
Mine Manager: A. J. Beardsley.
Mine Surveyor: David Jones.
Foreman: A. J. Beardsley.
Thickness of Seam: 6 ft.
Thickness of Cover: 18 ft. to 37 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. ½ of L.S. 8, Sec. 35, Twp. 58, Rge. 27, W. 4th Mer.
Coal Mining Lease Number: 5567.
Truck Mine.
Registered Trade Name: Picardville Coal.

Tomlinson & Kaszuba—Mine No. 1562

Authorized Capital: $30,000.00.
Name of President: F. N. Tomlinson.
Name of Vice-President: L. Kaszuba.
Name of Secretary-Treasurer: T. Dombroski.
Mine Office: Thorhild, Alberta.
Mine Manager: T. Dombroski.
Mine Surveyor: David Jones.
Foreman: T. Dombroski.
Thickness of Seam: 5 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, Sec. 11, Twp. 60, Rge. 21, W. 4th Mer.
Truck Mine.
Coal Mining Lease Number: S.L. 526.
Registered Trade Name: The North Point Coal.

WETASKIWIN AREA

Peter Gill—Mine No. 1534

Mine Office: Thorsby, Alberta.
Mine Surveyor: L. C. Stevens.
Overman: Joe Gill.
Thickness of Seam: 5 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 6 ft. Depth of Slope: 1000 ft.
Location of Mine: L.S. 3 and 6, Sec. 3, Twp. 48, Rge. 27, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 533.
Registered Trade Name: Canyon Creek Coal.

WHITECOURT AREA

Alex Watson—Mine No. 1569

Mine Office: Blue Ridge, Alberta.
Mine Manager: Alex Watson.
Mine Surveyor: David Jones.
Foreman: Alex Watson.

Thickness of Seam: 3½ ft.
Form of Opening: Strip Mine.
Location of Mine: Part of L.S. 12 and 13, Sec. 19, Twp. 59, Rge. 10, W. 5th Mer.
Coal Mining Lease Number: 5354.
Registered Trade Name: Blue Ridge Coal.

R. F. Pritchard—Mine No. 1612

Mine Office: Blue Ridge, Alberta.
Mine Manager: R. F. Pritchard.
Mine Surveyor: David Jones.
Overman: R. F. Pritchard.
Thickness of Seam: 3½ ft.
Thickness of Cover: 40 ft. to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S. ½ of L.S. 1, Sec. 31, Twp. 59, Rge. 10, W. 5th Mer.
Coal Mining Lease Number: 5490.
Truck Mine.
Registered Trade Name: Burnwell Coal.

Edward Hughes—Mine No. 1681

Mine Office: Mayerthorpe, Alberta.
Mine Manager: E. Hughes.
Mine Surveyor: E. Hughes.
Overman: E. Hughes.
Thickness of Seam: 4 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: N. ½ of L.S. 14 and 15, Sec. 35, Twp. 59, Rge. 9, W. 5th Mer.
Coal Mining Lease Number: 5708.
Registered Trade Name: Athabasca River Hard Coal.

NO AREA

Pinto Creek Coal Mines Ltd.—Mine No. 1616

Authorized Capital: $100,000.00.
Name of President: W. E. Doupe.
Names of Directors: W. E. Doupe, W. L. McCordick.
Name of Secretary-Treasurer: W. E. Doupe.
Mine Office: Wembley, Alberta.
Mine Manager: W. E. Doupe.
Thickness of Seam: 5 ft.
Thickness of Cover: 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Unsurveyed Territory, Twp. 68, Rge. 10, W. 6th Mer.
Coal Mining Lease Number: 5421.
Truck Mine.
Registered Trade Name: Pinto Creek Coal.

J. A. MacDonald—Mine No. 1720

Name of President: J. A. MacDonald.
Mine Office: Grande Prairie, Alberta.
Foreman: Frank Gibney.
Thickness of Seam: 10 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Unsurveyed Territory, Twp. 64, Rge. 7, W. 6th Mer.
Coal Mining Lease Number: 5895.
Truck Mine.
Registered Trade Name: Bald Mountain Coal.

The following table gives particulars of mines which were in operation during the year 1950 in the Province.

LIST OF MINES

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Ardley Area				
* 255	R.R. Straub	Alix	S.W. ¼ of 5-17-38-23-4	Sub-bituminous	1910
* 809	J.W. Sissons	Alix	3,4,5,6,15&16-33-38-23-4	Sub-bituminous	1919
* 969	Karl Schnepf	Delburne	14-10-38-22-4	Sub-bituminous	1921
1135	Carl Kurp	Delburne	4&5- 7-38-23-4	Sub-bituminous	1924
*1488	Allyn Mann Construction Co.	Alix	E. ½ of 3&4-29-38-23-4	Sub-bituminous	1935
*1613	James McDowell	Ardley	10-20-38-23-4	Sub-bituminous	1943
*1673	D.L. Gordon	Warden	W.&E. ½ 1&2-15-38-22-4	Sub-bituminous	1948
*1675	John Lynass	Delburne	13- 8-38-23-4	Sub-bituminous	1948
*1716	Alphonso Blair	Delburne	16- 8-36-22-4	Sub-bituminous	1950
	Big Valley Area				
* 864	Big Valley Collieries (Alberta)Ltd.	Big Valley	N.W. ¼ 36-35-20-4	Sub-bituminous	1920
*1661	Robert Campkin & Sons	Lousana	7,13-13-36-22-4	Sub-bituminous	1947
*1708	George L. Grant	Fenn	1- 9-35-20-4	Sub-bituminous	1949
	Brooks Area				
*1404	Kleenbirn Collieries Ltd	Eyremore	Pts. of 17-17-4	Sub-bituminous	1932
1672	J.D. Vogel	Rolling Hills	11- 2-14-13-4	Sub-bituminous	1950
	Camrose Area				
* 241	Joe Proskow	Dinant	4-18-48-19-4	Sub-bituminous	1910
* 724	S.H. Burnstad	Ohaton	N.&S. ½ 3&6-14-48-18-4	Sub-bituminous	1917
*1055	A.A. Campbell & C.A. Fergstad	Round Hill	Pts. of 7,8&10-30-48-18-4	Sub-bituminous	1950
*1524	George Shute & Partners	Dinant	8&9- 7-48-19-4	Sub-bituminous	1937
*1603	Alberta Coal Co. Ltd	Camrose	2,6,7,10-11- 15-29-46-19-4	Sub-bituminous	1943
1420	Red Flame Coal Co	Round Hill	19-48-18-4	Sub-bituminous	1933

The following table gives particulars of mines which were in operation during the year 1950 in the Province:

LIST OF MINES

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Carbon Area				
53	A. Fox (Kneehill Mine)	Carbon	S.W.¼ of 3-14-29-23-4	Sub-bituminous	1898
* 194	A. A. McArthur	Three Hills	N.E.¼ of 4-31-22-4	Sub-bituminous	1909
384	Inland Coal Co. Ltd	Three Hills	S.½ of 36-31-24-4	Sub-bituminous	1913
710	East Trochu Coal Mine	Trochu	9,10,15&16,14-33-23-4	Sub-bituminous	1917
817	Ben Pickering	Ghost Pine Creek	S.½ of 1&2- 6-31-21-4	Sub-bituminous	1919
921	E. Reissig	Trochu	15&16-14-33-23-4	Sub-bituminous	1921
1060	East Carbon Coal Co. Ltd	Carbon	12&13- 7-29-22-4	Sub-bituminous	1922
1226	C.C. Campbell	Trochu	W. ½of 9-29-33-22-4	Sub-bituminous	1926
1283	H.J. Halbert & F. Beierle	Trochu	S.E.¼ of 8-14-33-23-4	Sub-bituminous	1928
1359	Balogh Brothers	Carbon	16-12-29-23-4	Sub-bituminous	1931
*1499	Nuttal & Davidson	Three Hills	1&2- 9-31-22-4	Sub-bituminous	1936
*1719	Alvin Notland	Morrin	16-21-31-21-4	Sub-bituminous	1950
	Cascade Area				
2	The Canmore Mines Ltd	Canmore	N.E. Pt. of 1-29-24-10-5	Bituminous	1891
1244	Frank Wheatley & Sons	Banff	12- 4-26-11-5	Bituminous	1926
1667	Kananaskis Exploration & Development Co. Ltd	Seebe	3-23- 9-5	Bituminous	1947
	Castor Area				
251	John Tyrlik	Heisler	9-28-42-17-4	Sub-bituminous	1910
* 291	James Chiswick	Gadsby	N.&S. ½ of11&6-28-39-16-4	Sub-bituminous	1911
447	A.J. James & E.J. Boyce	Forestburg	13-28-40-15-4	Sub-bituminous	1914
615	J. Komperdo & Partners	Heisler	13-22-42-17-4	Sub-bituminous	1915
902	O.V. Remillard	Castor	15&16-33-37-14-4	Sub-bituminous	1921
* 953	D.H. Wiltse, A.J. Cordel & T. Pilsworth	Forestburg	S.E. ¼ of 1-32-40-15-4	Sub-bituminous	1921
*1046	Alberta Coal Co.	Halkirk	6,7&8-20-40-15-4	Sub-bituminous	1922

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
1062	Charles Strader	Halkirk	4-17-39-15-4	Sub-bituminous	1922
1232	J.H. Ainsworth	Halkirk	13-25-40-16-4	Sub-bituminous	1926
1237	Daniel Dryden	Halkirk	11- 8-39-15-4	Sub-bituminous	1926
1248	B.J. Gerla & W. Runge	Donalda	10&11-29-41-17-4	Sub-bituminous	1926
*1343	Joseph Haden	Castor	3&6- 3-38-14-4	Sub-bituminous	1950
1417	James Easton	Castor	S.W. ¼ of 14-34-37-14-4	Sub-bituminous	1933
1435	Thomas Mitchinson	Donalda	N.&S.½ 6&11- 2-44-19-4	Sub-bituminous	1933
1441	Leonard Buckle	Donalda	5, 12&13-16-42-17-4	Sub-bituminous	1933
1572	William Jones, Sr.	Donalda	N. & S.½ 4&5-28-41-17-4	Sub-bituminous	1940
*1578	Forestburg Collieries Ltd.	Forestburg	15&16-36-40-16-4	Sub-bituminous	1941
1587	J.J. Mills	Heisler	S.W.&S.E.½ 11&12-22-42-17-4	Sub-bituminous	1942
*1614	Stettler Coal Co.	Stettler	16-26-40-16-4	Sub-bituminous	1943
*1634	F.N. Wiltse	Halkirk	W. ½ of 11-32-39-15-4	Sub-bituminous	1945
1642	J. Bradley & A. O'Brian	Halkirk	11,12&14-25-40-16-4	Sub-bituminous	1946
*1650	John Lynass	Forestburg	9-32-40-15-4	Sub-bituminous	1946
1689	N. MacPherson & D.P. Kroetsch	Heisler	8-21-42-17-4	Sub-bituminous	1949
*1691	A.J. Shannon & J. Lang	Halkirk	Pts.of 12&11-19-40-15-4	Sub-bituminous	1949
1697	Michael R. Muyres & Sons	Forestburg	7&10-32-40-15-4	Sub-bituminous	1949
1702	Dolanz, Dolanz, & Strickland	Heisler	3&4-27-42-17-4	Sub-bituminous	1949
*1711	Filipenko Brothers	Stettler	N½ 11,13,S.½14,15,25-40-16-4	Sub-bituminous	1950
1713	Wisla Brothers	Castor	1&2- 8-43-17-4	Sub-bituminous	1950
*1718	L. Ose	Rosalind	9,10,15,16 -29-42-17-4	Sub-bituminous	1950
1677	John C. Reed & Son	Edmonton	1- 2-41-16-4	Sub-bituminous	1948
	Champion Area				
136	G. Rhodes	Champion	7-8-15-22-4	Sub-bituminous	1907
1137	Carlo Travaglia	Champion	W.3/4 of 2&3 -4-16-23-4	Sub-bituminous	1950
1509	P. Fontana & Sons	Champion	15-33-15-23-4	Sub-bituminous	1937
1565	Mike Popovich	Champion	9- 8-16-23-4	Sub-bituminous	1939
1717	W. Russell	Carmangay	1&2-36-14-22-4	Sub-bituminous	1950

LIST OF MINES - Continued

Mine No.	Operator	Address	Location	L.S.S. T. R. M.	Character of Coal	Date of Opening
	Coalspur Area					
* 769	Sterling Collieries Ltd..........	Sterco......................		12-35-47-20-5	Bituminous................	1918
771	Foothills Collieries Ltd.........	Foothills....................		2,7,10&15-24-47-20-5	Bituminous................	1918
* 775	Lakeside Coals Ltd...............	Robb.........................	S.W.¼	12-14-49-21-5	Bituminous................	1918
846	McLeod River Hard Coal (1941) Ltd.	Mercoal......................		4-25-48-22-5	Bituminous................	1920
*1002	Coal Valley Mining Co. Ltd.......	Coal Valley..................	W.½ of	10-25-47-20-5	Bituminous................	1922
*1157	North Western Coal & Oil Ltd.....	Robb.........................	Pts.of Secs.	21-22-15-16,49-21-5	Bituminous................	1950
*1692	King Coal & Lumber Co. Ltd.	Coalspur.....................		7-33-48-21-5	Bituminous................	1949
	Crowsnest Area					
** 87	West Canadian Collieries Ltd....	Bellevue.....................		10-20- 7- 3-5	Bituminous................	1903
** 88	International Coal & Coke Co....	Coleman......................		11- 8- 8- 4-5	Bituminous................	1903
133	Hillcrest Mohawk Collieries Ltd.	Bellevue.....................	S.E.¼ of	21- 7- 3-5	Bituminous................	1907
199	Beaver Mines Coal Co.	Beaver Mines.................		10- 3- 6- 2-5	Bituminous................	1909
**204	McGillivray Creek Coal & Coke Co.	Coleman......................	S.W.¼ of	2-17- 8- 4-5	Bituminous................	1909
**396	West Canadian Collieries Ltd.....	Blairmore....................		10- 2- 8- 4-5	Bituminous................	1913
1584	West Canadian Collieries Ltd.....	Blairmore....................		15-31- 6- 3-5	Bituminous................	1942
*1695	Hillcrest Mohawk Collieries Ltd.	Bellevue.....................		7- 6-5	Bituminous................	1949
*1710	Carl and Louis Schultz..........	Coleman......................		23&26-10- 4-5	Bituminous................	1950
	Drumheller Area					
346	Rosedale Collieries Ltd..........	Rosedale.....................		14-28-28-19-4	Sub-bituminous............	1912
367	Midland Coal Mining Co. Ltd......	Drumheller...................		14- 9-29-20-4	Sub-bituminous............	1912
402	Red Deer Valley Coal Co. Ltd.....	Drumheller...................	N.E.¼ Road Allow	7-29-20-4	Sub-bituminous............	1913
422	Century Coals Ltd. (Commander Mine)	Drumheller...................		5-9-29-20-4	Sub-bituminous............	1914
436	Rosedale Collieries Ltd..........	Aerial.......................	S.E.¼ of	7-28-28-19-4	Sub-bituminous............	1914
728	Maple Leaf Coal Co. Ltd..........	Drumheller...................		13-32-27-18-4	Sub-bituminous............	1918
1258	Brilliant Coal Co. Ltd...........	Drumheller...................		14-10-29-20-4	Sub-bituminous............	1927
1299	Sask. Federated Co-ops Ltd.......	East Coulee..................	S.W.¼	32-27-18-4	Sub-bituminous............	1929
1421	Sask. Federated Co-ops Ltd.......	Drumheller...................		13-11-29-20-4	Sub-bituminous............	1933
620	Newcastle Collieries Ltd.........	Drumheller...................	S.W.¼ of	3-29-20-4	Sub-bituminous............	1915
1493	Western Gem and Jewel Colls......	Cambria......................		6-15-28-19-4	Sub-bituminous............	1936
1589	Arcadia Coals Ltd................	Drumheller...................		16- 7-28-18-4	Sub-bituminous............	1943

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
1436	Royalty Coal Mining Co.	Wayne	13-20-28-19-4	Sub-bituminous	1933
1484	Century Coals Ltd(Atlas Mine)	Drumheller	N.W. ¼ of 13-21-27-18-4	Sub-bituminous	1935
1491	Murray Collieries Ltd.	Drumheller	S.E. ¼ of 29-27-18-4	Sub-bituminous	1936
1511	Aetna Coals Ltd.	Wayne	1-22-28-19-4	Sub-bituminous	1937
1515	E.R. James & O. Kliche	East Coulee	10,11,14,15-22-28-18-4	Sub-bituminous	1950
1520	The Minute Coal Co.	Drumheller	3,6&11-14-29-20-4	Sub-bituminous	1937
1570	Sovereign Coal Co. Ltd.	Wayne	N.E. ¼ of 8- 7-28-19-4	Sub-bituminous	1940
1573	Monarch Coal Mining Co.	Drumheller	1-20-27-18-4	Sub-bituminous	1940
*1599	H.S. Chambers	Drumheller	12-23-28-18-4	Sub-bituminous	1943
1655	J. Wakaruk	Drumheller	W.&E.½ of 9,10-22-29-20-4	Sub-bituminous	1947
*1666	Allan Livingstone	Nacmine	16-16-28-19-4	Sub-bituminous	1947
*1668	Victor Leonhardt	Drumheller	3&6-17-29-19-4	Sub-bituminous	1948
1669	Joy Coal Mining Co. Ltd.	Cambria	11,12,13-18-28-19-4	Sub-bituminous	1948
*1688	David H. Jones	Nacmine	N.&S.½ of 8&9-24-29-21-4	Sub-bituminous	1949
*1700	J.A. McLeod & C.C. Paxton	Drumheller	5&6- 1-29-20-4	Sub-bituminous	1949
	Edmonton Area				
91	Ottewell Coal Co. Ltd.	Clover Bar	S.W.¼ of 4-17-53-23-4	Sub-bituminous	1904
99	Great West Coal Co. Ltd.	Clover Bar	S.E.¼ of 10- 7-53-23-4	Sub-bituminous	1903
* 129	Sundance Mines Ltd.	Cardiff	N.E.¼ of 16-14-55-25-4	Sub-bituminous	1907
428	Banner Coals Ltd.	Carbondale	10- 8-55-24-4-	Sub-bituminous	1914
720	Harry Ebert	Calmar	N.W.¼ 5-51-25-4	Sub-bituminous	1950
1098	Long Coal Co. Ltd.	Namao	4-31-54-24-4-	Sub-bituminous	1923
1266	Edmonton Collieries Ltd.	Namao	14-36-54-25-4	Sub-bituminous	1927
1316	Samis Collieries Ltd.	Namao	6-36-54-25-4	Sub-bituminous	1929
1357	Red Hot Coal Co. Ltd.	Edmonton	R.L.-33 Edmonton	Sub-bituminous	1931
*1366	Beverly Coal Ltd.	Beverly	6-13-53-24-4	Sub-bituminous	1931
*1419	Pine Creek Collieries Ltd.	S. Edmonton	4-25-51-25-4	Sub-bituminous	1933
1463	Riverdale Coal Co. Ltd.	Edmonton	N.E. Corn. 14- 5-55-24-4	Sub-bituminous	1934
1496	G.S. Gwilliam & Samis	Namao	3- 6-55-24-4	Sub-bituminous	1936
*1582	Egg Lake Coal Co.	Morinville	13&14-36-56-26-4	Sub-bituminous	1939
1560	Kost Nimko	South Edmonton	10-25-51-25-4	Sub-bituminous	1939

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
1626	J/B. Starkey Co. Ltd.	St. Albert	S.W. $\frac{1}{4}$ of 4-36-54-25-4	Sub-bituminous	1945
1627	Dickinson, Knight, & Dickinson	Carbondale	S.E. $\frac{1}{4}$ of 17-55-24-4	Sub-bituminous	1945
1628	Blue Point Mine	South Edmonton	15-23-51-25-4	Sub-bituminous	1945
*1632	C.F. MacLachlan	Ardrossan	N. $\frac{1}{2}$ of 8&9- 2-53-21-4	Sub-bituminous	1945
1635	Morinville Collieries Ltd.	Morinville	1-32-55-25-4	Sub-bituminous	1945
*1636	J.B. St. Martin	Legal	11&14-26-57-25-4	Sub-bituminous	1945
1641	A. Horkulak	South Edmonton	9,10,15&16-26-51-25-4	Sub-bituminous	1946
*1658	T. Opalinski	Ellerslie	15-25-51-25-4	Sub-bituminous	1947
*1684	J.G. Mucha	South Edmonton	10-25-51-25-4	Sub-bituminous	1948
*1696	Adelard Houle	Morinville	1,2,7&8-36-56-26-4	Sub-bituminous	1949
	Gleichen Area				
72	Blackfoot Indians	Gleichen	Blackfoot Indian Reserve	Sub-bituminous	1902
1265	Hans Castella & Sons	Standard	5&12-11-25-22-4	Sub-bituminous	1927
1431	H. Rasmussen & C.H. Fleischer.	Rosebud	3&6-29-26-21-4	Sub-bituminous	1933
1521	Wm. McMillan	Rosebud	14-20-26-21-4	Sub-bituminous	1937
	Halcourt Area				
651	Baldwin Collieries Ltd.	Grande Prairie	15-35-70- 7-6	Bituminous	1916
*1633	William Fraser	Halcourt	8-21-70-10-6	Bituminous	1945
*1704	Michael Romanuik	Dawson Creek	N$\frac{1}{2}$ &S$\frac{1}{2}$ of 3&6-21-70-10-6	Bituminous	1949
	Highwood Area				
1625	Hard Coal Producers Ltd.	Turner Valley	N.E. $\frac{1}{4}$ of 15-19- 7-5	Bituminous	1945
*1638	Sheep River Coal	Calgary	7-24-19- 6-5	Bituminous	1945

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Lethbridge Area				
56	A. Razzolini	Magrath	3- 7- 7-21-4	Bituminous	1902
738	J.A.S. Wukusich	Lethbridge,	2&7-11- 8-22-4	Bituminous	1909
889	George Rollingson & Son	Lethbridge	E. &W.½ 15&16-2 - 8-22-4	Bituminous	1950
1086	S. Kocsis & S. Varga	Lethbridge	5&12- 8-7-21-4	Bituminous	1923
1095	J.C. Chester	Lethbridge	N.½ of 8-30-9 -21-4	Bituminous	1923
1263	Lethbridge Collieries Ltd	Shaughnessy	11-30-10-21-4	Bituminous	1927
1464	Lethbridge Collieries Ltd	Lethbridge	3- 2- 9-22-4	Bituminous	1934
1581	J.J. Hamilton Coal Co	Lethbridge	5,6,10,12,15-24- 9-22-4	Bituminous	1941
*1685	L.C. McClain	Magrath	Pt. of Sec. 18- 7-21-4	Bituminous	1948
	Milk River Area				
1301	Thomas Taylor	Lucky Strike	7,8,9,10-10- 3-11-4	Sub-bituminous	1929
	Morley Area				
*1619	Chiniki Coal Co	Morley	Unsurveyed Territory	Bituminous	1944
	Mountain Park Area				
x282	Mountain Park Coals Ltd	Mountain Park	33-45-23-5	Bituminous	1911
**693	Cadomin Coal Co. Ltd	Cadomin	14-31-46-23-5	Bituminous	1917
**905	Luscar Coals Ltd	Luscar	7-23-47-24-5	Bituminous	1921
*1392	Gregg River Collieries Ltd	Gregg River	8-28-47-24-5	Bituminous	1932
1617	Luscar Coals Ltd	Luscar	27-47-24-5	Bituminous	1943
	Nordegg Area				
**256	Brazeau Collieries Ltd	Nordegg	40-15-5	Bituminous	1910

LIST OF MINES - Continued

	Operator	Address	Location L.S S. T. R. M.	Character of Coal	Date of Opening
	Pakowki Area				
1318	M.R. Johnson & E. Davis	Elkwater	10-23- 8- 3-4	Sub-bituminous	1929
	Pekisko Area				
1516	Peter M. Ramsay	Calgary	10- 4-22- 3-5	Bituminous	1937
	Pembina Area				
* 419	Alberta Coal Co. Ltd	Wabamun	16- 9-53- 4-5	Sub-bituminous	1913
*1409	Gainford Collieries Ltd	Seba Beach	S.E. ¼ of 36-53- 6-5	Sub-bituminous	1932
*1495	Pembina Peerless Coal Co. Ltd.	Entwistle	S.W. ¼ of 34-53- 7-5	Sub-bituminous	1936
*1592	Mt. Royal Collieries	Edmonton	E. ½ of 30-52- 4-5	Sub-bituminous	1943
*1644	Strawberry Creek Coal Co.	Warburg	16-13-49- 3-5	Sub-bituminous	1946
*1645	Lothian Collieries Ltd	Wabamun	10&15-53- 4-5	Sub-bituminous	1946
1652	N. Fry & T. Larson	Seba Beach	16-25-53- 6-5	Sub-bituminous	1946
1657	J. Lidgett & L. Opheim	Entwistle	S. ½ of 16&9-10-54-7-5	Sub-bituminous	1947
*1670	Lothian Collieries Ltd	Warburg	14-13-49- 3-5	Sub-bituminous	1948
*1683	Continental Collieries Ltd	Seba Beach	5-33-52- 5-5	Sub-bituminous	1948
*1687	James Sturms	Genesee	N.E. ¼ of -15-50-4-5	Sub-bituminous	1948
1690	Karl Schon & M.J. Hoover	Edmonton	4,5,6,11&12- 8-50-6-5	Sub-bituminous	1949
*1701	Ralph S. Gailey & Sons	Devon	N.W. ¼ of 18-50-3-5	Sub-bituminous	1949
*1709	Edmund Miller	Telfordville	12&13-33-49-2-5	Sub-bituminous	1949
*1712	William S. Marcus	Warburg	N.W.¼ 20-49-2-5	Sub-bituminous	1950
*1715	Samueal Giovinazzo	Highvale	16-8- 52- 4-5	Sub-bituminous	1950
	Pincher Area				
1440	Rhodes Mining Co.	Lundbreck	10-26- 7- 2-5	Bituminous	1933
	Prairie Creek Area				
1296	Dunn & Finlay	Hinton	3&6-19-51-24-5	Bituminous	1929
1653	Hinton Hard Coal Co.	Hinton	4-29-50-25-5	Bituminous	1946
1714	C.M. Woodley & H. Schnur	Hinton	7-11-51-25-5	Bituminous	1950

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date o Openin
	Redcliff Area				
772	Ajax Coal Co. Ltd.	Medicine Hat	2- 5-13- 6-4	Sub-bituminous	1918
*1707	G.A. Naylor	Medicine Hat	1-13- 7-4	Sub-bituminous	1949
	Rochester Area				
*1686	Marwood S. Alexander	Edmonton	8-11-66-24-4	Sub-bituminous	1948
	Saunders Area				
388	Bighorn Saunders Creek Colls.	Saunders	N.&S.½ of 8&9 -24-40-13-5	Bituminous	1913
852	Alexo Coal Co. Ltd.	Alexo	N.W. ¼ of 9 -27-40-13-5	Bituminous	1920
	Sheerness Area				
* 443	Chinook Coal Co. Ltd.	Sheerness	1-12-29-13-4	Sub-bituminous	1914
* 486	A. Litke	Dowling	Pts. of 6-29-32-13-4	Sub-bituminous	1915
*1314	John Gaetz	Hanna	1- 6-29-14-4	Sub-bituminous	1929
*1398	T.G. Ironside & A. Glover	Scapa	12- 5-34-13-4	Sub-bituminous	1932
*1401	Fred Pahl	Hanna	E. & W.½ 7&8-30-32-13-4	Sub-bituminous	1932
*1432	Sheerness Coal Co. Ltd.	Sheerness	5-19-29-12-4	Sub-bituminous	1933
1553	J. Masciangelo & Partners	Delia	9,10,15&16-21-30-17-4	Sub-bituminous	1939
*1597	Crystal Mine	Hanna	16-12-29-13-4	Sub-bituminous	1943
*1699	J.I. Stirling & W.J. Friedley	Delia	S.W. ¼ of 21-30-17-4	Sub-bituminous	1949
	Slave Area				
*1682	Rybert Pearson	Canyon Creek	9-21-73- 8-5	Sub-bituminous	1948
	Taber Area				
672	C.R. Cooke	Winnifred	3-27-12-10-4	Sub-bituminous	1916
838	D. McCracken & Goering	Alderson	7-28-12-10-4	Sub-bituminous	1919

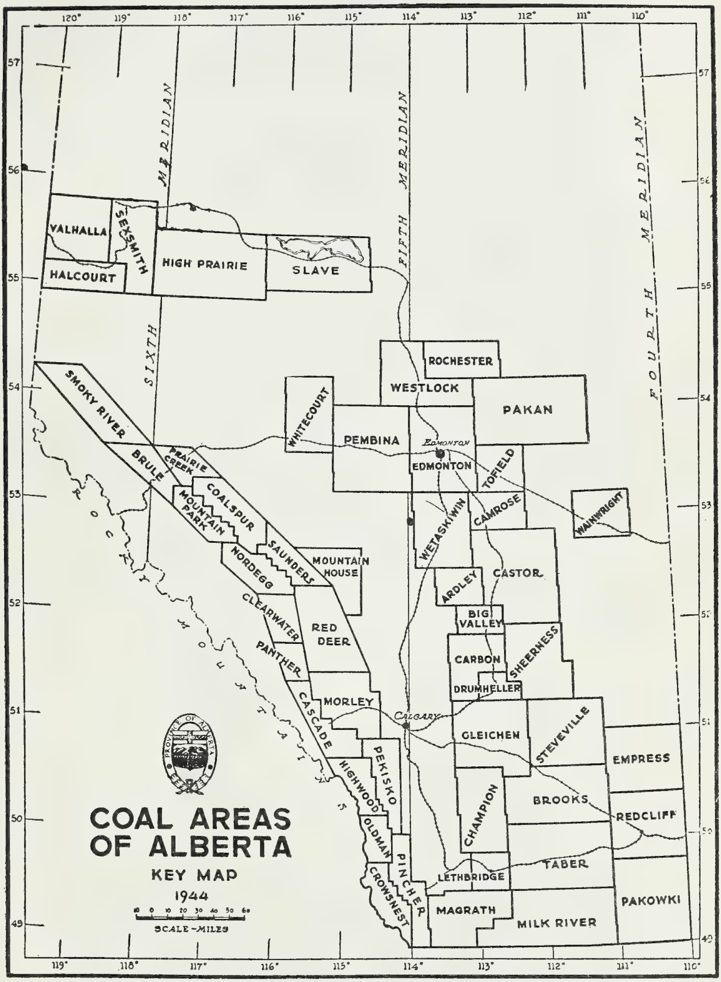
LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal½	Date of Opening
*1334	Continental Coal Corporation	Grassy Lake	1,7&8-26- 9-13-4	Sub-bituminous	1930
1536	Oliver Coal Mines	Taber	2-18-10-16-4	Sub-bituminous	1938
*1604	Southalta Coal Co. Ltd	Taber	12-10-17-4	Sub-bituminous	1943
*1705	J.P. Neufeld	Grassy Lake	N. &. S. ½ 4&5-25- 9-13-4	Sub-bituminous	1949
	Tofield Area				
* 215	Emil Skarin	Dodds	7-14-49-18-4	Sub-bituminous	1909
* 252	Tofield Coal Co. Ltd	Tofield	N. ½ 26-50-19-4	Sub-bituminous	1910
*1107	Black Nugget Coal Co	Dodds	15-11-49-18-4	Sub-bituminous	1923
1206	Ryley Coal Co	Ryley	1&8-8-49-17-4	Sub-bituminous	1925
*1624	C. Binder	Ryley	5- 9-49-17-4	Sub-bituminous	1944
	Westlock Area				
*1517	John Melesko	Thorhild	N. & S.½ 12&13-12-60-21-4	Sub-bituminous	1937
*1523	Picardville Coal Co	Picardville	E. ½ 8-35-58-27-4	Sub-bituminous	1945
*1562	Tomlinson & Kaszuba	Thorhild	1-11-60-21-4	Sub-bituminous	1939
	Wetaskiwin Area				
1534	Peter Gill	Thorsby	3&6- 3-48-27-4	Sub-bituminous	1938
	Whitecourt Area				
*1569	Alex Watson	Blue Ridge	Part of 12 &13-19-59-10-5	Sub-bituminous	1940
1612	R.F. Pritchard	Blue Ridge	S. ½ of 1-31-59-10-5	Sub-bituminous	1943
1681	Edward Hughes	Mayerthorpe	N. ½ of 14 &15-35-59- 9-5	Sub-bituminous	1948
	No Area				
*1616	Pinto Creek Coal Mines	Wembley	Unsurveyed Territory 68-10-6	Bituminous	1943
*1720	J. A. MacDonald	Grande Prairie	Unsurveyed Territory 64- 7-6	Bituminous	1950

The following table gives particulars of Quarries which were in operation during the year 1950 in the Province:

LIST OF QUARRIES

Quarry No.	Operator	Address	Location L.S.S.T.R.M.	Date of Opening
	Cascade Area			
Q 2	Canada Cement Co. Ltd	Exshaw	27&28-24- 9-5	1906
Q 3	Loder's Lime Co. Ltd	Exshaw	25&36-24- 9-5	1906
Q 13	Rock Wool Products Ltd	Exshaw	19-24- 9-5	1947
	Crowsnest Area			
Q 8	Summit Lime Works Ltd	Crowsnest	7- 7- 8- 5-5	1920
	Drumheller Area			
Q 11	Gordon L. Kidd	Drumheller	6,7,9&10-14-29-20-4	1935
	Edmonton Area			
Q 1	J.B. Little & Sons Ltd	Edmonton	R.L. 20 in 53-24-4	1893
Q 5	Acme Brick & Tile Co	Edmonton	N.E. 1/4 21-53-25-4	1911
	Mountain Park Area			
Q 12	Mike Errico	Cadomin	31-46-23-5	1940
	Redcliff Area			
Q 4	Gunderson Brick & Coal Co. Ltd	Redcliff	11&15- 5-13- 6-4	1908
Q 6	Redcliff Premier Brick Co. Ltd	Redcliff	N.W. 1/4 9-13- 6-4	1912
Q 7	Redcliff Pressed Brick Co. Ltd	Redcliff	S.W. 1/4 9-13- 6-4	1913
Q 9	Medicine Hat Brick & Tile Co	Medicine Hat	13-28-12- 5-4	1930
Q 10	Alberta Clay Products Co. Ltd	Medicine Hat	27&34-11- 5-4	1930


COAL AREAS OF ALBERTA
KEY MAP
1944
SCALE - MILES
10 0 10 20 30 40 50 60
PROVINCE OF ALBERTA
SIXTH MERIDIAN
FIFTH MERIDIAN
FOURTH MERIDIAN
ROCKY MOUNTAINS
120° 119° 118° 117° 116° 115° 114° 113° 112° 111° 110°
57 56 55 54 53 52 51 50 49
VALHALLA
SEXSMITH
HALCOURT
HIGH PRAIRIE
SLAVE
ROCHESTER
WESTLOCK
PAKAN
WHITECOURT
PEMBINA
EDMONTON
TOFIELD
WAINWRIGHT
SMOKY RIVER
BRULE
PRAIRIE CREEK
COALSPUR
MOUNTAIN PARK
SAUNDERS
NORDEGG
MOUNTAIN HOUSE
WETASKIWIN
CAMROSE
CASTOR
ARDLEY
BIG VALLEY
CLEARWATER
RED DEER
PANTHER
CARBON
SHEERNESS
DRUMHELLER
CASCADE
MORLEY
CALGARY
GLEICHEN
STEVEVILLE
EMPRESS
PEKISKO
HIGHWOOD
BROOKS
REDCLIFF
CHAMPION
OLDMAN
PINCHER
CROWSNEST
LETHBRIDGE
TABER
MAGRATH
MILK RIVER
PAKOWKI

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